Javier Defelipe

List of Publications by Year
in descending order

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	Human Purkinje cells outperform mouse Purkinje cells in dendritic complexity and computational capacity. Communications Biology, 2024, 7, .	4.5	4
2	Tracing nerve fibers with volume electron microscopy to quantitatively analyze brain connectivity. Communications Biology, 2024, 7, .	4.5	0
3	Volume electron microscopy analysis of synapses in primary regions of the human cerebral cortex. Cerebral Cortex, 2024, 34, .	3.2	0
4	Microanatomical study of pyramidal neurons in the contralesional somatosensory cortex after experimental ischemic stroke. Cerebral Cortex, 2023, 33, 1074-1089.	3.2	4
5	Strong and reliable synaptic communication between pyramidal neurons in adult human cerebral cortex. Cerebral Cortex, 2023, 33, 2857-2878.	3.2	33
6	Cortical synapses of the world's smallest mammal: An FIB/SEM study in the Etruscan shrew. Journal of Comparative Neurology, 2023, 531, 390-414.	2.0	9
7	3D synaptic organization of layer III of the human anterior cingulate and temporopolar cortex. Cerebral Cortex, 2023, 33, 9691-9708.	3.2	6
8	Linking Brain Structure, Activity, and Cognitive Function through Computation. ENeuro, 2022, 9, ENEURO.0316-21.2022.	1.9	29
9	A Deep Learning-Based Workflow for Dendritic Spine Segmentation. Frontiers in Neuroanatomy, 2022, 16, 817903.	1.7	8
10	Single-Neuron Labeling in Fixed Tissue and Targeted Volume Electron Microscopy. Frontiers in Neuroanatomy, 2022, 16, 852057.	1.7	2
11	Structural Analysis of Human and Mouse Dendritic Spines Reveals a Morphological Continuum and Differences across Ages and Species. ENeuro, 2022, 9, ENEURO.0039-22.2022.	1.9	12
12	Pyramidal cell axon initial segment in AlzheimerÂ´s disease. Scientific Reports, 2022, 12, .	3.4	9
13	A calcium-based plasticity model for predicting long-term potentiation and depression in the neocortex. Nature Communications, 2022, 13, .	13.2	36
14	A museum for Cajal's Legacy. Lancet Neurology, The, 2021, 20, 25.	10.4	1
15	Three-dimensional analysis of synaptic organization in the hippocampal CA1Âfield in Alzheimerâ€™s disease. Brain, 2021, 144, 553-573.	8.0	47
16	3D Ultrastructural Study of Synapses in the Human Entorhinal Cortex. Cerebral Cortex, 2021, 31, 410-425.	3.2	19
17	Pre-Embedding Immunostaining of Brain Tissue and Three-Dimensional Imaging with FIB-SEM. Neuromethods, 2021, , 285-302.	0.0	2
18	High levels of 27-hydroxycholesterol results in synaptic plasticity alterations in the hippocampus. Scientific Reports, 2021, 11, 3736.	3.4	23

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19	Variation in Pyramidal Cell Morphology Across the Human Anterior Temporal Lobe. Cerebral Cortex, 2021, 31, 3592-3609.	3.2	22
20	Metabolic Changes in Brain Slices over Time: a Multiplatform Metabolomics Approach. Molecular Neurobiology, 2021, 58, 3224-3237.	4.1	9
21	3D Analysis of the Synaptic Organization in the Entorhinal Cortex in Alzheimerâ€™s Disease. ENeuro, 2021, 8, ENEURO.0504-20.2021.	1.9	18
22	Three-Dimensional Synaptic Organization of Layer III of the Human Temporal Neocortex. Cerebral Cortex, 2021, 31, 4742-4764.	3.2	32
23	Dendritic spines are lost in clusters in Alzheimerâ€™s disease. Scientific Reports, 2021, 11, 12350.	3.4	21
24	Brain connectomics: From Cajal to present. , 2021, , .		0
25	Neuronal excitation/inhibition imbalance: core element of a translational perspective on Alzheimer pathophysiology. Ageing Research Reviews, 2021, 69, 101372.	11.2	106
26	3D segmentation of neuronal nuclei and cell-type identification using multi-channel information. Expert Systems With Applications, 2021, 183, 115443.	7.9	1
27	3D Synaptic Organization of the Rat CA1 and Alterations Induced by Cocaine Self-Administration. Cerebral Cortex, 2021, 31, 1927-1952.	3.2	5
28	Neuron Class and Target Variability in the Three-Dimensional Localization of SK2 Channels in Hippocampal Neurons as Detected by Immunogold FIB-SEM. Frontiers in Neuroanatomy, 2021, 15, 781314.	1.7	3
29	Differential Structure of Hippocampal CA1 Pyramidal Neurons in the Human and Mouse. Cerebral Cortex, 2020, 30, 730-752.	3.2	52
30	Differential expression of secretagogin immunostaining in the hippocampal formation and the entorhinal and perirhinal cortices of humans, rats, and mice. Journal of Comparative Neurology, 2020, 528, 523-541.	2.0	14
31	Size, Shape, and Distribution of Multivesicular Bodies in the Juvenile Rat Somatosensory Cortex: A 3D Electron Microscopy Study. Cerebral Cortex, 2020, 30, 1887-1901.	3.2	6
32	Effect of Phosphorylated Tau on Cortical Pyramidal Neuron Morphology during Hibernation. Cerebral Cortex Communications, 2020, 1, tgaa018.	1.8	3
33	Neuronize v2: Bridging the Gap Between Existing Proprietary Tools to Optimize Neuroscientific Workflows. Frontiers in Neuroanatomy, 2020, 14, 585793.	1.7	6
34	Comparing basal dendrite branches in human and mouse hippocampal CA1 pyramidal neurons with Bayesian networks. Scientific Reports, 2020, 10, 18592.	3.4	13
35	Estimation of the number of synapses in the hippocampus and brain-wide by volume electron microscopy and genetic labeling. Scientific Reports, 2020, 10, 14014.	3.4	43
36	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	14.5	202

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37	Neuroanatomical signature of superâ€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
38	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.	3.8	43
39	Calbindin immunostaining in the CA1 hippocampal pyramidal cell layer of the human and mouse: A comparative study. Journal of Chemical Neuroanatomy, 2020, 104, 101745.	2.2	8
40	Volume Electron Microscopy Study of the Relationship Between Synapses and Astrocytes in the Developing Rat Somatosensory Cortex. Cerebral Cortex, 2020, 30, 3800-3819.	3.2	26
41	Three-dimensional synaptic organization of the human hippocampal CA1 field. ELife, 2020, 9, .	5.9	45
42	Ultrastructural, Molecular and Functional Mapping of GABAergic Synapses on Dendritic Spines and Shafts of Neocortical Pyramidal Neurons. Cerebral Cortex, 2019, 29, 2771-2781.	3.2	37
43	Classification of GABAergic interneurons by leading neuroscientists. Scientific Data, 2019, 6, 221.	5.4	16
44	InTool Explorer: An Interactive Exploratory Analysis Tool for Versatile Visualizations of Neuroscientific Data. Frontiers in Neuroanatomy, 2019, 13, 28.	1.7	3
45	Phospho-Tau Changes in the Human CA1 During Alzheimerâ€™s Disease Progression. Journal of Alzheimer's Disease, 2019, 69, 277-288.	2.7	32
46	Slow-Wave Activity in the S1HL Cortex Is Contributed by Different Layer-Specific Field Potential Sources during Development. Journal of Neuroscience, 2019, 39, 8900-8915.	3.8	11
47	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	35
48	The Golgi Apparatus of Neocortical Glial Cells During Hibernation in the Syrian Hamster. Frontiers in Neuroanatomy, 2019, 13, 92.	1.7	2
49	27-Hydroxycholesterol Induces Aberrant Morphology and Synaptic Dysfunction in Hippocampal Neurons. Cerebral Cortex, 2019, 29, 429-446.	3.2	49
50	Metabolomic Study of Hibernating Syrian Hamster Brains: In Search of Neuroprotective Agents. Journal of Proteome Research, 2019, 18, 1175-1190.	3.8	25
51	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	52
52	Changes in neocortical and hippocampal microglial cells during hibernation. Brain Structure and Function, 2018, 223, 1881-1895.	2.4	9
53	Three-dimensional analysis of synapses in the transentorhinal cortex of Alzheimerâ€™s disease patients. Acta Neuropathologica Communications, 2018, 6, 20.	5.4	52
54	Quantitative 3D Ultrastructure of Thalamocortical Synapses from the â€œLemniscalâ€• Ventral Posteromedial Nucleus in Mouse Barrel Cortex. Cerebral Cortex, 2018, 28, 3159-3175.	3.2	64

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55	A Method for the Symbolic Representation of Neurons. Frontiers in Neuroanatomy, 2018, 12, 106.	1.7	5
56	Towards a supervised classification of neocortical interneuron morphologies. BMC Bioinformatics, 2018, 19, 511.	2.7	19
57	Editorial: Why Have Cortical Layers? What Is the Function of Layering? Do Neurons in Cortex Integrate Information Across Different Layers?. Frontiers in Neuroanatomy, 2018, 12, 78.	1.7	4
58	Modifications of the axon initial segment during the hibernation of the Syrian hamster. Brain Structure and Function, 2018, 223, 4307-4321.	2.4	6
59	Regional Diversity in the Postsynaptic Proteome of the Mouse Brain. Proteomes, 2018, 6, 31.	3.5	41
60	Architecture of the Mouse Brain Synaptome. Neuron, 2018, 99, 781-799.e10.	8.0	188
61	Selective effects of Î”9-tetrahydrocannabinol on medium spiny neurons in the striatum. PLoS ONE, 2018, 13, e0200950.	2.5	13
62	Neuroanatomy from Mesoscopic to Nanoscopic Scales: An Improved Method for the Observation of Semithin Sections by High-Resolution Scanning Electron Microscopy. Frontiers in Neuroanatomy, 2018, 12, 14.	1.7	5
63	MultiMap: A Tool to Automatically Extract and Analyse Spatial Microscopic Data From Large Stacks of Confocal Microscopy Images. Frontiers in Neuroanatomy, 2018, 12, 37.	1.7	6
64	Human Cortical Pyramidal Neurons: From Spines to Spikes via Models. Frontiers in Cellular Neuroscience, 2018, 12, 181.	3.8	111
65	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.	2.7	59
66	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.	2.4	55
67	A Quantitative Study on the Distribution of Mitochondria in the Neuropil of the Juvenile Rat Somatosensory Cortex. Cerebral Cortex, 2018, 28, 3673-3684.	3.2	43
68	3D morphology-based clustering and simulation of human pyramidal cell dendritic spines. PLoS Computational Biology, 2018, 14, e1006221.	3.1	26
69	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	59
70	Patterns of Dendritic Basal Field Orientation of Pyramidal Neurons in the Rat Somatosensory Cortex. ENeuro, 2018, 5, ENEURO.0142-18.2018.	1.9	4
71	Ratâ€strain dependent changes of dendritic and spine morphology in the hippocampus after cocaine selfâ€administration. Addiction Biology, 2017, 22, 78-92.	2.7	14
72	High plasticity of axonal pathology in Alzheimerâ€™s disease mouse models. Acta Neuropathologica Communications, 2017, 5, 14.	5.4	50

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73	Metabolomics and neuroanatomical evaluation of post-mortem changes in the hippocampus. Brain Structure and Function, 2017, 222, 2831-2853.	2.4	60
74	Phospho-Tau Accumulation and Structural Alterations of the Golgi Apparatus of Cortical Pyramidal Neurons in the P301S Tauopathy Mouse Model. Journal of Alzheimer's Disease, 2017, 60, 651-661.	2.7	9
75	Dendritic-branching angles of pyramidal neurons of the human cerebral cortex. Brain Structure and Function, 2017, 222, 1847-1859.	2.4	12
76	Neuroanatomy and Global Neuroscience. Neuron, 2017, 95, 14-18.	8.0	7
77	Morphometric alterations of Golgi apparatus in Alzheimer's disease are related to tau hyperphosphorylation. Neurobiology of Disease, 2017, 97, 11-23.	4.5	26
78	[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
79	[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
80	GSK-3Î² Overexpression Alters the Dendritic Spines of Developmentally Generated Granule Neurons in the Mouse Hippocampal Dentate Gyrus. Frontiers in Neuroanatomy, 2017, 11, 18.	1.7	19
81	Influence of cerebral blood vessel movements on the position of perivascular synapses. PLoS ONE, 2017, 12, e0172368.	2.5	5
82	Three-dimensional spatial modeling of spines along dendritic networks in human cortical pyramidal neurons. PLoS ONE, 2017, 12, e0180400.	2.5	9
83	Neocortical Microcircuits. , 2017, , 3-22.		0
84	Phospho-Tau and Cognitive Decline in Alzheimer's Disease. Commentary: Tau in physiology and pathology. Frontiers in Neuroanatomy, 2016, 10, 44.	1.7	2
85	Comments and General Discussion on â€œThe Anatomical Problem Posed by Brain Complexity and Size: A Potential Solutionâ€. Frontiers in Neuroanatomy, 2016, 10, 60.	1.7	13
86	Editorial: Neuroanatomy for the XXIst Century. Frontiers in Neuroanatomy, 2016, 10, 70.	1.7	1
87	Wiring Economy of Pyramidal Cells in the Juvenile Rat Somatosensory Cortex. PLoS ONE, 2016, 11, e0165915.	2.5	1
88	Dendritic branching angles of pyramidal cells across layers of the juvenile rat somatosensory cortex. Journal of Comparative Neurology, 2016, 524, 2567-2576.	2.0	4
89	A Fast Method for the Segmentation of Synaptic Junctions and Mitochondria in Serial Electron Microscopic Images of the Brain. Neuroinformatics, 2016, 14, 235-250.	2.8	24
90	Comment on â€œPrinciples of connectivity among morphologically defined cell types in adult neocortexâ€. Science, 2016, 353, 1108-1108.	20.9	24

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91	Dendritic and Axonal Wiring Optimization of Cortical GABAergic Interneurons. Neuroinformatics, 2016, 14, 453-464.	2.8	3
92	Reelin Regulates the Maturation of Dendritic Spines, Synaptogenesis and Glial Ensheathment of Newborn Granule Cells. Cerebral Cortex, 2016, 26, 4282-4298.	3.2	55
93	Decreased adult neurogenesis in hibernating Syrian hamster. Neuroscience, 2016, 333, 181-192.	2.4	22
94	PSD95 nanoclusters are postsynaptic building blocks in hippocampus circuits. Scientific Reports, 2016, 6, 24626.	3.4	134
95	Specific cytoarchitectureal changes in hippocampal subareas in daDREAM mice. Molecular Brain, 2016, 9, 22.	3.0	22
96	Laminar Differences in Dendritic Structure of Pyramidal Neurons in the Juvenile Rat Somatosensory Cortex. Cerebral Cortex, 2016, 26, 2811-2822.	3.2	30
97	Protocols for Monitoring the Development of Tau Pathology in Alzheimerâ€™s Disease. Methods in Molecular Biology, 2016, 1303, 143-160.	0.0	3
98	Unique membrane properties and enhanced signal processing in human neocortical neurons. ELife, 2016, 5, .	5.9	167
99	The dendritic spine story: an intriguing process of discovery. Frontiers in Neuroanatomy, 2015, 9, 14.	1.7	57
100	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
101	The anatomical problem posed by brain complexity and size: a potential solution. Frontiers in Neuroanatomy, 2015, 9, 104.	1.7	64
102	A univocal definition of the neuronal soma morphology using Gaussian mixture models. Frontiers in Neuroanatomy, 2015, 9, 137.	1.7	13
103	Changes in the Golgi Apparatus of Neocortical and Hippocampal Neurons in the Hibernating Hamster. Frontiers in Neuroanatomy, 2015, 9, 157.	1.7	19
104	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. Frontiers in Neural Circuits, 2015, 9, 44.	3.0	142
105	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.	3.2	40
106	Schedule-induced polydipsia is associated with increased spine density in dorsolateral striatum neurons. Neuroscience, 2015, 300, 238-245.	2.4	18
107	Bayesian Network Classifiers for Categorizing Cortical GABAergic Interneurons. Neuroinformatics, 2015, 13, 193-208.	2.8	20
108	Classifying GABAergic interneurons with semi-supervised projected model-based clustering. Artificial Intelligence in Medicine, 2015, 65, 49-59.	6.7	14

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109	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	27.8	1,310
110	Selective presence of a giant saccular organelle in the axon initial segment of a subpopulation of layer V pyramidal neurons. Brain Structure and Function, 2015, 220, 869-884.	2.4	11
111	Spatial distribution of neurons innervated by chandelier cells. Brain Structure and Function, 2015, 220, 2817-2834.	2.4	41
112	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.	2.4	107
113	PyramidalExplorer: A New Interactive Tool to Explore Morpho-Functional Relations of Human Pyramidal Neurons. Frontiers in Neuroanatomy, 2015, 9, 159.	1.7	9
114	Structural plasticity in hippocampal cells related to the facilitative effect of intracranial self-stimulation on a spatial memory task.. Behavioral Neuroscience, 2015, 129, 720-730.	1.2	12
115	The Influence of Synaptic Size on AMPA Receptor Activation: A Monte Carlo Model. PLoS ONE, 2015, 10, e0130924.	2.5	27
116	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	132
117	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	73
118	Three-dimensional distribution of cortical synapses: a replicated point pattern-based analysis. Frontiers in Neuroanatomy, 2014, 8, 85.	1.7	51
119	Multi-dimensional classification of GABAergic interneurons with Bayesian network-modeled label uncertainty. Frontiers in Computational Neuroscience, 2014, 8, 150.	2.2	14
120	DREAM Controls the On/Off Switch of Specific Activity-Dependent Transcription Pathways. Molecular and Cellular Biology, 2014, 34, 877-887.	2.5	41
121	Cellular Components of Nervous Tissue. , 2014, , 3-21.		4
122	Haptically Assisted Connection Procedure for the Reconstruction of Dendritic Spines. IEEE Transactions on Haptics, 2014, 7, 486-498.	2.7	1
123	Bayesian network modeling of the consensus between experts: An application to neuron classification. International Journal of Approximate Reasoning, 2014, 55, 3-22.	3.5	20
124	Musical Representation of Dendritic Spine Distribution: A New Exploratory Tool. Neuroinformatics, 2014, 12, 341-53.	2.8	6
125	Alterations of the microvascular network in the sclerotic hippocampus of patients with temporal lobe epilepsy. Epilepsy and Behavior, 2014, 38, 48-52.	1.8	15
126	Random Positions of Dendritic Spines in Human Cerebral Cortex. Journal of Neuroscience, 2014, 34, 10078-10084.	3.8	15

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127	The death of Cajal and the end of scientific romanticism and individualism. Trends in Neurosciences, 2014, 37, 525-527.	8.8	7
128	Three-Dimensional Spatial Distribution of Synapses in the Neocortex: A Dual-Beam Electron Microscopy Study. Cerebral Cortex, 2014, 24, 1579-1588.	3.2	72
129	Branching angles of pyramidal cell dendrites follow common geometrical design principles in different cortical areas. Scientific Reports, 2014, 4, 5909.	3.4	14
130	Segmentation of neuronal nuclei based on clump splitting and a two-step binarization of images. Expert Systems With Applications, 2013, 40, 6521-6530.	7.9	44
131	Age-Based Comparison of Human Dendritic Spine Structure Using Complete Three-Dimensional Reconstructions. Cerebral Cortex, 2013, 23, 1798-1810.	3.2	133
132	Cajal and the discovery of a new artistic world. Progress in Brain Research, 2013, 203, 201-220.	3.9	12
133	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	10.7	729
134	Dense and Overlapping Innervation of Pyramidal Neurons by Chandelier Cells. Journal of Neuroscience, 2013, 33, 1907-1914.	3.8	81
135	GSK-3Î² overexpression causes reversible alterations on postsynaptic densities and dendritic morphology of hippocampal granule neurons in vivo. Molecular Psychiatry, 2013, 18, 451-460.	8.2	124
136	Alzheimer disease-like cellular phenotype of newborn granule neurons can be reversed in GSK-3Î²-overexpressing mice. Molecular Psychiatry, 2013, 18, 395-395.	8.2	6
137	Changes in tau phosphorylation in hibernating rodents. Journal of Neuroscience Research, 2013, 91, 954-962.	3.0	20
138	The Synapse: Differences Between Men and Women. Research and Perspectives in Endocrine Interactions, 2013, , 43-57.	0.0	0
139	The influence of phospho-tau on dendritic spines of cortical pyramidal neurons in patients with Alzheimerâ€™s disease. Brain, 2013, 136, 1913-1928.	8.0	122
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.	1.8	42
141	FIB/SEM Technology and Alzheimer's Disease: Three-Dimensional Analysis of Human Cortical Synapses. Journal of Alzheimer's Disease, 2013, 34, 995-1013.	2.7	53
142	Cellular Components of Nervous Tissue. , 2013, , 41-59.		2
143	Machine Learning Approach for the Outcome Prediction of Temporal Lobe Epilepsy Surgery. PLoS ONE, 2013, 8, e62819.	2.5	50
144	A Machine Learning Method for the Prediction of Receptor Activation in the Simulation of Synapses. PLoS ONE, 2013, 8, e68888.	2.5	6

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145	Going to School to Sculpt the Brain. Frontiers for Young Minds, 2013, 1, .	0.8	0
146	Neuronize: a tool for building realistic neuronal cell morphologies. Frontiers in Neuroanatomy, 2013, 7, 15.	1.7	30
147	Characterization and extraction of the synaptic apposition surface for synaptic geometry analysis. Frontiers in Neuroanatomy, 2013, 7, 20.	1.7	37
148	3D segmentations of neuronal nuclei from confocal microscope image stacks. Frontiers in Neuroanatomy, 2013, 7, 49.	1.7	17
149	Semi-supervised Projected Clustering for Classifying GABAergic Interneurons. Lecture Notes in Computer Science, 2013, , 156-165.	1.0	0
150	Facilitation of AMPA Receptor Synaptic Delivery as a Molecular Mechanism for Cognitive Enhancement. PLoS Biology, 2012, 10, e1001262.	5.4	43
151	Colocalization of Â-actinin and Synaptopodin in the Pyramidal Cell Axon Initial Segment. Cerebral Cortex, 2012, 22, 1648-1661.	3.2	26
152	Dyrk1A Influences Neuronal Morphogenesis Through Regulation of Cytoskeletal Dynamics in Mammalian Cortical Neurons. Cerebral Cortex, 2012, 22, 2867-2877.	3.2	92
153	The neocortical column. Frontiers in Neuroanatomy, 2012, 6, 22.	1.7	45
154	Silencing microRNA-134 produces neuroprotective and prolonged seizure-suppressive effects. Nature Medicine, 2012, 18, 1087-1094.	30.1	433
155	Effects of Amyloid-Î² Plaque Proximity on the Axon Initial Segment of Pyramidal Cells. Journal of Alzheimer's Disease, 2012, 29, 841-852.	2.7	28
156	Three-Dimensional Analysis of Spiny Dendrites Using Straightening and Unrolling Transforms. Neuroinformatics, 2012, 10, 391-407.	2.8	5
157	Developmental Expression of Kv Potassium Channels at the Axon Initial Segment of Cultured Hippocampal Neurons. PLoS ONE, 2012, 7, e48557.	2.5	39
158	Tau Phosphorylation by GSK3 in Different Conditions. International Journal of Alzheimer's Disease, 2012, 2012, 1-7.	2.5	93
159	Cortical White Matter: Beyond the Pale. Frontiers in Neuroanatomy, 2012, 5, 67.	1.7	10
160	Cortical GABAergic Neurons: Stretching It. Frontiers in Neuroanatomy, 2012, 6, 16.	1.7	2
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 Stereological Study of Synapse Number in the Epileptic Human Hippocampus. Frontiers in Neuroanatomy, 2011, 5, 8.	1.7	28

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163	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	67
164	The Evolution of the Brain, the Human Nature of Cortical Circuits, and Intellectual Creativity. Frontiers in Neuroanatomy, 2011, 5, 29.	1.7	392
165	Goodbye Ted (An Obituary for Edward G. Jones). Frontiers in Neuroanatomy, 2011, 5, 44.	1.7	1
166	Introducing the Human Brain Project. Procedia Computer Science, 2011, 7, 39-42.	2.1	121
167	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.	2.7	44
168	Models and Simulation of 3D Neuronal Dendritic Trees Using Bayesian Networks. Neuroinformatics, 2011, 9, 347-369.	2.8	20
169	Layerâ€specific alterations to CA1 dendritic spines in a mouse model of Alzheimer's disease. Hippocampus, 2011, 21, 1037-1044.	2.2	53
170	FAST INTERACTIVE QUANTIFICATION OF SYNAPSES IN THE CEREBRAL CORTEX. International Journal on Artificial Intelligence Tools, 2011, 20, 239-252.	1.2	2
171	Pyramidal cells in prefrontal cortex of primates: marked differences in neuronal structure among species. Frontiers in Neuroanatomy, 2011, 5, 2.	1.7	99
172	Aromatase expression in the normal and epileptic human hippocampus. Brain Research, 2010, 1315, 41-52.	2.3	53
173	Differential distribution of neurons in the gyral white matter of the human cerebral cortex. Journal of Comparative Neurology, 2010, 518, 4740-4759.	2.0	50
174	Cortical white matter: beyond the pale remarks, main conclusions and discussion. Frontiers in Neuroanatomy, 2010, 4, 4.	1.7	14
175	Pericellular innervation of neurons expressing abnormally hyperphosphorylated tau in the hippocampal formation of Alzheimerâ€™s disease patients. Frontiers in Neuroanatomy, 2010, 4, 20.	1.7	23
176	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.	7.6	95
177	GABAergic complex basket formations in the human neocortex. Journal of Comparative Neurology, 2010, 518, 4917-4937.	2.0	31
178	From the Connectome to the Synaptome: An Epic Love Story. Science, 2010, 330, 1198-1201.	20.9	151
179	Computer Assisted Identification, Segmentation and Quantification of Synapses in the Cerebral Cortex. Lecture Notes in Computer Science, 2010, , 112-118.	1.0	0
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