Giorgio A Ascoli

List of Publications by Year
in descending order

203 papers	10,446 citations	50276 46 h-index	48315 88 g-index
230 all docs	230 docs citations	230 times ranked	8612 citing authors

#	Article	IF	Citations
1	Robust Resting-State Dynamics in a Large-Scale Spiking Neural Network Model of Area CA3 in the Mouse Hippocampus. Cognitive Computation, 2023, 15, 1190-1210.	5.2	9
2	Efficient metadata mining of web-accessible neural morphologies. Progress in Biophysics and Molecular Biology, 2022, 168, 94-102.	2.9	10
3	Is Neuroscience FAIR? A Call for Collaborative Standardisation of Neuroscience Data. Neuroinformatics, 2022, 20, 507-512.	2.8	23
4	Sizing up whole-brain neuronal tracing. Science Bulletin, 2022, 67, 883-884.	9.0	1
5	Petabyte-Scale Multi-Morphometry of Single Neurons for Whole Brains. Neuroinformatics, 2022, 20, 525-536.	2.8	14
6	Quantification of neuron types in the rodent hippocampal formation by data mining and numerical optimization. European Journal of Neuroscience, 2022, 55, 1724-1741.	2.6	4
7	Normalized unitary synaptic signaling of the hippocampus and entorhinal cortex predicted by deep learning of experimental recordings. Communications Biology, 2022, 5, 418.	4.4	6
8	Large scale similarity search across digital reconstructions of neural morphology. Neuroscience Research, 2022, 181, 39-45.	1.9	8
9	NeuroMorpho.org. , 2022, , 2346-2347.		0
10	Hippocampome.org. , 2022, , 1588-1589.		0
11	Highlights from the Era of Open Source Web-Based Tools. Journal of Neuroscience, 2021, 41, 927-936.	3.6	19
12	A neuronal blueprint for directional mechanosensation in larval zebrafish. Current Biology, 2021, 31, 1463-1475.e6.	3.9	11
13	Connectivity characterization of the mouse basolateral amygdalar complex. Nature Communications, 2021, 12, 2859.	12.8	63
14	An update to Hippocampome.org by integrating single-cell phenotypes with circuit function in vivo. PLoS Biology, 2021, 19, e3001213.	5.6	26
15	Neuronal classification from network connectivity via adjacency spectral embedding. Network Neuroscience, 2021, 5, 1-22.	2.6	5
16	Organization of the inputs and outputs of the mouse superior colliculus. Nature Communications, 2021, 12, 4004.	12.8	61
17	An imaging analysis protocol to trace, quantify, and model multi-signal neuron morphology. STAR Protocols, 2021, 2, 100567.	1.2	10
18	BEAN: Interpretable and Efficient Learning With Biologically-Enhanced Artificial Neuronal Assembly Regularization. Frontiers in Neurorobotics, 2021, 15, 567482.	2.8	7

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19	Formin 3 directs dendritic architecture via microtubule regulation and is required for somatosensory nociceptive behavior. Development (Cambridge), 2021, 148, .	2.5	12
20	Quantitative neuronal morphometry by supervised and unsupervised learning. STAR Protocols, 2021, 2, 100867.	1.2	15
21	Schematic memory persistence and transience for efficient and robust continual learning. Neural Networks, 2021, 144, 49-60.	5.9	4
22	Spiking neural networks and hippocampal function: A web-accessible survey of simulations, modeling methods, and underlying theories. Cognitive Systems Research, 2021, 70, 80-92.	2.7	6
23	A Method for Estimating the Potential Synaptic Connections Between Axons and Dendrites From 2D Neuronal Images. Bio-protocol, 2021, 11, e4073.	0.4	7
24	Comprehensive Estimates of Potential Synaptic Connections in Local Circuits of the Rodent Hippocampal Formation by Axonal-Dendritic Overlap. Journal of Neuroscience, 2021, 41, 1665-1683.	3.6	22
25	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	27.8	316
26	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	27.8	117
27	Farewell, Neuroinformatics!. Neuroinformatics, 2021, 19, 551-552.	2.8	0
28	Explorers of the cells: Toward cross-platform knowledge integration to evaluate neuronal function. Neuron, 2021, 109, 3535-3537.	8.1	7
29	A comprehensive knowledge base of synaptic electrophysiology in the rodent hippocampal formation. Hippocampus, 2020, 30, 314-331.	1.9	16
30	Molecular expression profiles of morphologically defined hippocampal neuron types: Empirical evidence and relational inferences. Hippocampus, 2020, 30, 472-487.	1.9	13
31	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	14.8	183
32	Distinct Relations of Microtubules and Actin Filaments with Dendritic Architecture. IScience, 2020, 23, 101865.	4.1	15
33	Itinerant complexity in networks of intrinsically bursting neurons. Chaos, 2020, 30, 061106.	2.5	4
34	Neuroinformatics in the Time of Coronavirus. Neuroinformatics, 2020, 18, 337-338.	2.8	0
35	Operations research methods for estimating the population size of neuron types. Annals of Operations Research, 2020, 289, 33-50.	4.1	9
36	An open-source framework for neuroscience metadata management applied to digital reconstructions of neuronal morphology. Brain Informatics, 2020, 7, 2.	3.0	15

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37	Turning the Tide of Data Sharing. Neuroinformatics, 2019, 17, 473-474.	2.8	6
38	Simple models of quantitative firing phenotypes in hippocampal neurons: Comprehensive coverage of intrinsic diversity. PLoS Computational Biology, 2019, 15, e1007462.	3.2	22
39	Cell numbers, distribution, shape, and regional variation throughout the murine hippocampal formation from the adult brain Allen Reference Atlas. Brain Structure and Function, 2019, 224, 2883-2897.	2.3	24
40	PaperBot: open-source web-based search and metadata organization of scientific literature. BMC Bioinformatics, 2019, 20, 50.	2.6	14
41	Neuron Names: A Gene- and Property-Based Name Format, With Special Reference to Cortical Neurons. Frontiers in Neuroanatomy, 2019, 13, 25.	1.7	29
42	Genetic Single Neuron Anatomy Reveals Fine Granularity of Cortical Axo-Axonic Cells. Cell Reports, 2019, 26, 3145-3159.e5.	6.4	51
43	Quantitative firing pattern phenotyping of hippocampal neuron types. Scientific Reports, 2019, 9, 17915.	3.3	44
44	Hippocampome.org. , 2019, , 1-2.		0
45	An open repository for single-cell reconstructions of the brain forest. Scientific Data, 2018, 5, 180006.	5.3	71
46	Design and implementation of multi-signal and time-varying neural reconstructions. Scientific Data, 2018, 5, 170207.	5.3	30
47	Morphological determinants of dendritic arborization neurons in Drosophila larva. Brain Structure and Function, 2018, 223, 1107-1120.	2.3	31
48	Systematic Data Mining of Hippocampal Synaptic Properties. Springer Series in Computational Neuroscience, 2018, , 441-471.	0.3	3
49	Evolving Simple Models of Diverse Intrinsic Dynamics in Hippocampal Neuron Types. Frontiers in Neuroinformatics, 2018, 12, 8.	2.5	24
50	Winâ€“win data sharing in neuroscience. Nature Methods, 2017, 14, 112-116.	19.0	75
51	Molecular fingerprinting of principal neurons in the rodent hippocampus: A neuroinformatics approach. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 269-278.	2.8	25
52	Structural Plasticity in Dendrites: Developmental Neurogenetics, Morphological Reconstructions, and Computational Modeling. Contemporary Clinical Neuroscience, 2017, , 1-34.	0.3	9
53	An ontology-based search engine for digital reconstructions of neuronal morphology. Brain Informatics, 2017, 4, 123-134.	3.0	11
54	Automatic tracing of ultra-volumes of neuronal images. Nature Methods, 2017, 14, 332-333.	19.0	75

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55	Weighing the Evidence in Petersâ€™ Rule: Does Neuronal Morphology Predict Connectivity?. Trends in Neurosciences, 2017, 40, 63-71.	8.6	92
56	Dendritic Cytoskeletal Architecture Is Modulated by Combinatorial Transcriptional Regulation in <i>Drosophila melanogaster</i>. Genetics, 2017, 207, 1401-1421.	2.9	39
57	Name-calling in the hippocampus (and beyond): coming to terms with neuron types and properties. Brain Informatics, 2017, 4, 1-12.	3.0	31
58	Training for Data Science: Imagine Thereâ€™s no Countries. Neuroinformatics, 2017, 15, 301-302.	2.8	1
59	A Commitment to Open Source in Neuroscience. Neuron, 2017, 96, 964-965.	8.1	77
60	Computational Modeling as a Means to Defining Neuronal Spike Pattern Behaviors. Springer INdAM Series, 2017, , 25-43.	0.5	2
61	Metrics for comparing neuronal tree shapes based on persistent homology. PLoS ONE, 2017, 12, e0182184.	2.5	56
62	Neurochemical Markers in the Mammalian Brain: Structure, Roles in Synaptic Communication, and Pharmacological Relevance. Current Medicinal Chemistry, 2017, 24, 3077-3103.	2.4	14
63	In search of a periodic table of the neurons: Axonalâ€dendritic circuitry as the organizing principle. BioEssays, 2016, 38, 969-976.	2.5	27
64	On the Data-Driven Road from Neurology to Neuronomy. Neuroinformatics, 2016, 14, 251-252.	2.8	1
65	Differential Arc expression in the hippocampus and striatum during the transition from attentive to automatic navigation on a plus maze. Neurobiology of Learning and Memory, 2016, 131, 36-45.	1.9	14
66	Graph Theoretic and Motif Analyses of the Hippocampal Neuron Type Potential Connectome. ENeuro, 2016, 3, ENEURO.0205-16.2016.	1.9	26
67	Distinct and synergistic feedforward inhibition of pyramidal cells by basket and bistratified interneurons. Frontiers in Cellular Neuroscience, 2015, 9, 439.	3.7	9
68	Sharing Neuron Data: Carrots, Sticks, and Digital Records. PLoS Biology, 2015, 13, e1002275.	5.6	31
69	Older adults report moderately more detailed autobiographical memories. Frontiers in Psychology, 2015, 6, 631.	2.1	20
70	Hippocampome.org: a knowledge base of neuron types in the rodent hippocampus. ELife, 2015, 4, .	6.0	127
71	Doubling up on the Fly: NeuroMorpho.Org Meets Big Data. Neuroinformatics, 2015, 13, 127-129.	2.8	20
72	Quantitative Investigations of Axonal and Dendritic Arbors. Neuroscientist, 2015, 21, 241-254.	3.5	44

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73	The importance of metadata to assess information content in digital reconstructions of neuronal morphology. Cell and Tissue Research, 2015, 360, 121-127.	2.9	30
74	The natural frequency of human prospective memory increases with age.. Psychology and Aging, 2015, 30, 209-219.	1.6	37
75	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. Neuron, 2015, 87, 252-256.	8.1	202
76	A Neural Mechanism for Background Information-Gated Learning Based on Axonal-Dendritic Overlaps. PLoS Computational Biology, 2015, 11, e1004155.	3.2	5
77	Towards the automatic classification of neurons. Trends in Neurosciences, 2015, 38, 307-318.	8.6	90
78	Topological characterization of neuronal arbor morphology via sequence representation: I - motif analysis. BMC Bioinformatics, 2015, 16, 216.	2.6	30
79	From DIADEM to BigNeuron. Neuroinformatics, 2015, 13, 259-260.	2.8	82
80	Topological characterization of neuronal arbor morphology via sequence representation: II - global alignment. BMC Bioinformatics, 2015, 16, 209.	2.6	31
81	On Synaptic Circuits, Memory, and Kumquats. New England Journal of Medicine, 2015, 373, 1170-1172.	27.0	2
82	Neuroinformatics. Scholarpedia Journal, 2015, 10, 1312.	0.3	22
83	Statistical analysis and data mining of digital reconstructions of dendritic morphologies. Frontiers in Neuroanatomy, 2014, 8, 138.	1.7	53
84	Universal Dimensions of Meaning Derived from Semantic Relations among Words and Senses: Mereological Completeness vs. Ontological Generality. Computation, 2014, 2, 61-82.	2.0	4
85	A Community Spring For Neuroscience Data Sharing. Neuroinformatics, 2014, 12, 509-511.	2.8	7
86	Morphometric, geographic, and territorial characterization of brain arterial trees. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 755-766.	2.1	41
87	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. Nature Communications, 2014, 5, 4342.	12.8	109
88	Neurocognitive models of sense-making. Biologically Inspired Cognitive Architectures, 2014, 8, 82-89.	0.9	4
89	NeuroMorpho.Org. , 2014, , 1-4.		0
90	NeuroMorpho.org. , 2014, , 1-3.		1

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91	Modulation of hippocampal rhythms by subthreshold electric fields and network topology. Journal of Computational Neuroscience, 2013, 34, 369-389.	1.0	50
92	A secondary working memory challenge preserves primary place strategies despite overtraining. Learning and Memory, 2013, 20, 648-656.	1.3	26
93	Automated image computing reshapes computational neuroscience. BMC Bioinformatics, 2013, 14, 293.	2.6	24
94	Connecting Connectomes. Neuroinformatics, 2013, 11, 389-392.	2.8	5
95	Digital reconstruction and morphometric analysis of human brain arterial vasculature from magnetic resonance angiography. NeuroImage, 2013, 82, 170-181.	4.2	88
96	Global Neuroscience: Distributing the Management of Brain Knowledge Worldwide. Neuroinformatics, 2013, 11, 1-3.	2.8	8
97	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	10.2	707
98	Functional Impact of Dendritic Branch-Point Morphology. Journal of Neuroscience, 2013, 33, 2156-2165.	3.6	78
99	Neuronal Morphology Goes Digital: A Research Hub for Cellular and System Neuroscience. Neuron, 2013, 77, 1017-1038.	8.1	191
100	Augmenting Weak Semantic Cognitive Maps with an â€œAbstractnessâ€•Dimension. Computational Intelligence and Neuroscience, 2013, 2013, 1-10.	1.7	23
101	New insights on vertebrate olivo-cerebellar climbing fibers from computerized morphological reconstructions. Bioarchitecture, 2013, 3, 38-41.	1.5	0
102	The Mind-Brain Relationship as a Mathematical Problem. ISRN Neuroscience, 2013, 2013, 1-13.	1.5	6
103	Measuring and Modeling Morphology: How Dendrites Take Shape. , 2012, , 387-427.		1
104	Non-homogeneous stereological properties of the rat hippocampus from high-resolution 3D serial reconstruction of thin histological sections. Neuroscience, 2012, 205, 91-111.	2.3	27
105	Digital Morphometry of Rat Cerebellar Climbing Fibers Reveals Distinct Branch and Bouton Types. Journal of Neuroscience, 2012, 32, 14670-14684.	3.6	22
106	Potential connectomics complements the endeavour of â€˜no synapse left behindâ€™ in the cortex. Journal of Physiology, 2012, 590, 651-652.	2.9	3
107	Neuromantic â€“ from Semi-Manual to Semi-Automatic Reconstruction of Neuron Morphology. Frontiers in Neuroinformatics, 2012, 6, 4.	2.5	141
108	An ontological approach to describing neurons and their relationships. Frontiers in Neuroinformatics, 2012, 6, 15.	2.5	45

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109	Digital Reconstructions of Neuronal Morphology: Three Decades of Research Trends. Frontiers in Neuroscience, 2012, 6, 49.	2.8	117
110	Twenty Questions for Neuroscience Metadata. Neuroinformatics, 2012, 10, 115-117.	2.8	6
111	Quantitative Measurements of Autobiographical Memory Content. PLoS ONE, 2012, 7, e44809.	2.5	18
112	Automated reconstruction of neuronal morphology: An overview. Brain Research Reviews, 2011, 67, 94-102.	9.0	135
113	Communication Structure of Cortical Networks. Frontiers in Computational Neuroscience, 2011, 5, 6.	2.1	12
114	Potential Synaptic Connectivity of Different Neurons onto Pyramidal Cells in a 3D Reconstruction of the Rat Hippocampus. Frontiers in Neuroinformatics, 2011, 5, 5.	2.5	31
115	Passive and active shaping of unitary responses from associational/commissural and perforant path synapses in hippocampal CA3 pyramidal cells. Journal of Computational Neuroscience, 2011, 31, 159-182.	1.0	17
116	A computer model of unitary responses from associational/commissural and perforant path synapses in hippocampal CA3 pyramidal cells. Journal of Computational Neuroscience, 2011, 31, 137-158.	1.0	20
117	Axonal morphometry of hippocampal pyramidal neurons semi-automatically reconstructed after in vivo labeling in different CA3 locations. Brain Structure and Function, 2011, 216, 1-15.	2.3	51
118	The DIADEM Data Sets: Representative Light Microscopy Images of Neuronal Morphology to Advance Automation of Digital Reconstructions. Neuroinformatics, 2011, 9, 143-157.	2.8	128
119	Tracking the Source of Quantitative Knowledge in Neuroscience: A Neuroinformatics Role for Computational Models. Neuroinformatics, 2011, 9, 1-2.	2.8	2
120	DIADEMchallenge.Org: A Compendium of Resources Fostering the Continuous Development of Automated Neuronal Reconstruction. Neuroinformatics, 2011, 9, 303-304.	2.8	31
121	The DIADEM Metric: Comparing Multiple Reconstructions of the Same Neuron. Neuroinformatics, 2011, 9, 233-245.	2.8	91
122	Next Steps in Data Publishing. Neuroinformatics, 2011, 9, 317-320.	2.8	7
123	Toward a semantic general theory of everything. Complexity, 2010, 15, 12-18.	1.6	14
124	The Coming of Age of the Hippocampome. Neuroinformatics, 2010, 8, 1-3.	2.8	14
125	Local Control of Postinhibitory Rebound Spiking in CA1 Pyramidal Neuron Dendrites. Journal of Neuroscience, 2010, 30, 6434-6442.	3.6	72
126	Principal Semantic Components of Language and the Measurement of Meaning. PLoS ONE, 2010, 5, e10921.	2.5	28

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127	CA3 Cells: Detailed and Simplified Pyramidal Cell Models. , 2010, , 353-374.		3
128	Dendritic Excitability and Neuronal Morphology as Determinants of Synaptic Efficacy. Journal of Neurophysiology, 2009, 101, 1847-1866.	1.8	56
129	Feed-forward inhibition as a buffer of the neuronal input-output relation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18004-18009.	7.1	74
130	Quantitative morphometry of electrophysiologically identified CA3b interneurons reveals robust local geometry and distinct cell classes. Journal of Comparative Neurology, 2009, 515, 677-695.	1.6	33
131	The Central Role of Neuroinformatics in the National Academy of Engineeringâ€™s Grandest Challenge: Reverse Engineer the Brain. Neuroinformatics, 2009, 7, 1-5.	2.8	18
132	Review of Papers Describing Neuroinformatics Software. Neuroinformatics, 2009, 7, 211-212.	2.8	6
133	Neuroinformatics Grand Challenges. Neuroinformatics, 2008, 6, 1-3.	2.8	28
134	The Neuroscience Information Framework: A Data and Knowledge Environment for Neuroscience. Neuroinformatics, 2008, 6, 149-160.	2.8	189
135	The NIF LinkOut Broker: A Web Resource to Facilitate Federated Data Integration using NCBI Identifiers. Neuroinformatics, 2008, 6, 219-227.	2.8	17
136	NeuroMorpho.Org Implementation of Digital Neuroscience: Dense Coverage and Integration with the NIF. Neuroinformatics, 2008, 6, 241-52.	2.8	64
137	The NIFSTD and BIRNLex Vocabularies: Building Comprehensive Ontologies for Neuroscience. Neuroinformatics, 2008, 6, 175-194.	2.8	130
138	Distinct classes of pyramidal cells exhibit mutually exclusive firing patterns in hippocampal area CA3b. Hippocampus, 2008, 18, 411-424.	1.9	109
139	Self-sustaining non-repetitive activity in a large scale neuronal-level model of the hippocampal circuit. Neural Networks, 2008, 21, 1153-1163.	5.9	3
140	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. Nature Reviews Neuroscience, 2008, 9, 557-568.	10.2	1,314
141	L-Measure: a web-accessible tool for the analysis, comparison and search of digital reconstructions of neuronal morphologies. Nature Protocols, 2008, 3, 866-876.	12.0	324
142	Self-sustaining non-repetitive activity in a large scale neuronal-level model of the hippocampal circuit. BMC Neuroscience, 2008, 9, .	1.9	0
143	Electric field modulation of theta and gamma rhythms: probe into network connectivity. BMC Neuroscience, 2008, 9, .	1.9	0
144	Effects of Synaptic Synchrony on the Neuronal Input-Output Relationship. Neural Computation, 2008, 20, 1717-1731.	2.2	11

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145	Quantifying neuronal size: Summing up trees and splitting the branch difference. Seminars in Cell and Developmental Biology, 2008, 19, 485-493.	5.0	60
146	A Comparative Computer Simulation of Dendritic Morphology. PLoS Computational Biology, 2008, 4, e1000089.	3.2	60
147	Science of the Conscious Mind. Biological Bulletin, 2008, 215, 204-215.	1.8	12
148	Computational Models of Neuronal Biophysics and the Characterization of Potential Neuropharmacological Targets. Current Medicinal Chemistry, 2008, 15, 2456-2471.	2.4	22
149	Computational Neuroanatomy of the Rat Hippocampus. , 2008, , 71-VII.		2
150	NeuroMorpho.Org: A Central Resource for Neuronal Morphologies. Journal of Neuroscience, 2007, 27, 9247-9251.	3.6	618
151	Biomedical research funding: when the game gets tough, winners start to play. BioEssays, 2007, 29, 933-936.	2.5	8
152	Successful grant fishing in funding droughts. Nature Cell Biology, 2007, 9, 856-857.	10.3	0
153	Morphological characterization of electrophysiologically and immunohistochemically identified basal forebrain cholinergic and neuropeptide Y-containing neurons. Brain Structure and Function, 2007, 212, 55-73.	2.3	42
154	Times of Change, Times of Growth. Neuroinformatics, 2007, 5, 95-95.	2.8	0
155	Value Added by Data Sharing: Long-Term Potentiation of Neuroscience Research. Neuroinformatics, 2007, 5, 143-145.	2.8	14
156	Successes and Rewards in Sharing Digital Reconstructions of Neuronal Morphology. Neuroinformatics, 2007, 5, 154-160.	2.8	28
157	Scarcity begets addiction. Behavioral and Brain Sciences, 2006, 29, 178-178.	0.7	29
158	Mobilizing the base of neuroscience data: the case of neuronal morphologies. Nature Reviews Neuroscience, 2006, 7, 318-324.	10.2	211
159	On the Future of the Human Brain Project. Neuroinformatics, 2006, 4, 129-130.	2.8	11
160	The Ups and Downs of Neuroscience Shares. Neuroinformatics, 2006, 4, 213-216.	2.8	31
161	Computational simulation of the input-output relationship in hippocampal pyramidal cells. Journal of Computational Neuroscience, 2006, 21, 191-209.	1.0	27
162	Drug binding to human serum albumin: Abridged review of results obtained with high-performance liquid chromatography and circular dichroism. Chirality, 2006, 18, 667-679.	2.6	142

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163	Effects of Î²-Catenin on Dendritic Morphology and Simulated Firing Patterns in Cultured Hippocampal Neurons. Biological Bulletin, 2006, 211, 31-43.	1.8	9
164	Morphological homeostasis in cortical dendrites. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1569-1574.	7.1	62
165	Neuron and Network Modeling. , 2006, , 604-630.		4
166	The ups and downs of neuroscience shares. , 2006, 4, 213.		1
167	Incorporating anatomically realistic cellular-level connectivity in neural network models of the rat hippocampus. BioSystems, 2005, 79, 173-181.	2.0	28
168	Looking Forward to Open Access. Neuroinformatics, 2005, 3, 001-004.	2.8	8
169	A Cross-Platform Freeware Tool for Digital Reconstruction of Neuronal Arborizations From Image Stacks. Neuroinformatics, 2005, 3, 343-360.	2.8	48
170	Algorithmic description of hippocampal granule cell dendritic morphology. Neurocomputing, 2005, 65-66, 253-260.	5.9	8
171	Algorithmic reconstruction of complete axonal arborizations in rat hippocampal neurons. Neurocomputing, 2005, 65-66, 15-22.	5.9	24
172	Statistical determinants of dendritic morphology in hippocampal pyramidal neurons: A hidden Markov model. Hippocampus, 2005, 15, 166-183.	1.9	49
173	Developmental changes in spinal motoneuron dendrites in neonatal mice. Journal of Comparative Neurology, 2005, 483, 304-317.	1.6	49
174	Local Diameter Fully Constrains Dendritic Size in Basal but not Apical Trees of CA1 Pyramidal Neurons. Journal of Computational Neuroscience, 2005, 19, 223-238.	1.0	20
175	A simple neural network model of the hippocampus suggesting its pathfinding role in episodic memory retrieval. Learning and Memory, 2005, 12, 193-208.	1.3	78
176	Signal Propagation in Oblique Dendrites of CA1 Pyramidal Cells. Journal of Neurophysiology, 2005, 94, 4145-4155.	1.8	84
177	Brain and Mind at the Crossroad of Time. Cortex, 2005, 41, 619-620.	2.4	5
178	The Conscious Self: Ontology, Epistemology and the Mirror Quest. Cortex, 2005, 41, 621-636.	2.4	24
179	Quantitative morphometry of hippocampal pyramidal cells: Differences between anatomical classes and reconstructing laboratories. Journal of Comparative Neurology, 2004, 473, 177-193.	1.6	79
180	An Information Science Infrastructure for Neuroscience. Neuroinformatics, 2003, 1, 001-002.	2.8	14

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181	Towards Effective and Rewarding Data Sharing. Neuroinformatics, 2003, 1, 289-296.	2.8	78
182	From data to knowledge. Neuroinformatics, 2003, 1, 145-147.	2.8	2
183	Statistical morphological analysis of hippocampal principal neurons indicates cell-specific repulsion of dendrites from their own cell. Journal of Neuroscience Research, 2003, 71, 173-187.	2.9	47
184	Passive dendritic integration heavily affects spiking dynamics of recurrent networks. Neural Networks, 2003, 16, 657-663.	5.9	14
185	Web-Based Neuronal Archives. , 2003, , 81-97.		0
186	Neuroanatomical algorithms for dendritic modelling. Network: Computation in Neural Systems, 2002, 13, 247-260.	3.6	36
187	Effects of dendritic morphology on CA3 pyramidal cell electrophysiology: a simulation study. Brain Research, 2002, 941, 11-28.	2.2	140
188	A real-scale anatomical model of the dentate gyrus based on single cell reconstructions and 3D rendering of a brain atlas. Neurocomputing, 2002, 44-46, 629-634.	5.9	7
189	A new bursting model of CA3 pyramidal cell physiology suggests multiple locations for spike initiation. BioSystems, 2002, 67, 129-137.	2.0	51
190	Neuroanatomical algorithms for dendritic modelling. Network: Computation in Neural Systems, 2002, 13, 247-260.	3.6	18
191	Neuroanatomical algorithms for dendritic modelling. Network: Computation in Neural Systems, 2002, 13, 247-60.	3.6	15
192	Computer generation and quantitative morphometric analysis of virtual neurons. Anatomy and Embryology, 2001, 204, 283-301.	1.5	86
193	Relation between neuronal morphology and electrophysiology in the Kainate lesion model of Alzheimer's Disease. Neurocomputing, 2001, 38-40, 1477-1487.	5.9	13
194	Generation, description and storage of dendritic morphology data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1131-1145.	4.0	110
195	Algorithmic Extraction of Morphological Statistics from Electronic Archives of Neuroanatomy. Lecture Notes in Computer Science, 2001, , 30-37.	1.3	21
196	The complex link between neuroanatomy and consciousness. Complexity, 2000, 6, 20-26.	1.6	6
197	L-neuron: A modeling tool for the efficient generation and parsimonious description of dendritic morphology. Neurocomputing, 2000, 32-33, 1003-1011.	5.9	109
198	Reconstruction of brain networks by algorithmic amplification of morphometry data. Lecture Notes in Computer Science, 1999, , 25-33.	1.3	15

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199	Progress and perspectives in computational neuroanatomy. , 1999, 257, 195-207.		62
200	Is it already time to give up on a science of consciousness?. Complexity, 1999, 5, 25-34.	1.6	4
201	Computing the Brain and the Computing Brain. , 0, , 03-24.		3
202	Practical Aspects in Anatomically Accurate Simulations of Neuronal Electrophysiology. , 0, , 127-148.		6
203	Generation and Description of Neuronal Morphology Using L-Neuron: A Case Study. , 0, , 49-70.		13