

Giorgio A Ascoli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184
papers

7,210
citations

43
h-index

80
g-index

230
ext. papers

9,138
ext. citations

5.9
avg, IF

6.15
L-index

#	Paper	IF	Citations
184	Is Neuroscience FAIR? A Call for Collaborative Standardisation of Neuroscience Data.. <i>Neuroinformatics</i> , 2022 , 1	3.2	0
183	Sizing up whole-brain neuronal tracing. <i>Science Bulletin</i> , 2022 ,	10.6	
182	Petabyte-Scale Multi-Morphometry of Single Neurons for Whole Brains.. <i>Neuroinformatics</i> , 2022 , 1	3.2	1
181	Normalized unitary synaptic signaling of the hippocampus and entorhinal cortex predicted by deep learning of experimental recordings.. <i>Communications Biology</i> , 2022 , 5, 418	6.7	0
180	NeuroMorpho.org 2022 , 2346-2347		
179	Hippocampome.org 2022 , 1588-1589		
178	Comprehensive Estimates of Potential Synaptic Connections in Local Circuits of the Rodent Hippocampal Formation by Axonal-Dendritic Overlap. <i>Journal of Neuroscience</i> , 2021 , 41, 1665-1683	6.6	7
177	Explorers of the cells: Toward cross-platform knowledge integration to evaluate neuronal function. <i>Neuron</i> , 2021 , 109, 3535-3537	13.9	0
176	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021 , 598, 86-102	50.4	44
175	Cellular anatomy of the mouse primary motor cortex. <i>Nature</i> , 2021 , 598, 159-166	50.4	15
174	A neuronal blueprint for directional mechanosensation in larval zebrafish. <i>Current Biology</i> , 2021 , 31, 1468-1475	46	
173	Connectivity characterization of the mouse basolateral amygdalar complex. <i>Nature Communications</i> , 2021 , 12, 2859	17.4	9
172	An update to Hippocampome.org by integrating single-cell phenotypes with circuit function in vivo. <i>PLoS Biology</i> , 2021 , 19, e3001213	9.7	7
171	Neuronal classification from network connectivity via adjacency spectral embedding. <i>Network Neuroscience</i> , 2021 , 5, 689-710	5.6	1
170	Organization of the inputs and outputs of the mouse superior colliculus. <i>Nature Communications</i> , 2021 , 12, 4004	17.4	4
169	An imaging analysis protocol to trace, quantify, and model multi-signal neuron morphology. <i>STAR Protocols</i> , 2021 , 2, 100567	1.4	2
168	BEAN: Interpretable and Efficient Learning With Biologically-Enhanced Artificial Neuronal Assembly Regularization. <i>Frontiers in Neurorobotics</i> , 2021 , 15, 567482	3.4	2

167	Highlights from the Era of Open Source Web-Based Tools. <i>Journal of Neuroscience</i> , 2021 , 41, 927-936	6.6	1
166	Formin 3 directs dendritic architecture via microtubule regulation and is required for somatosensory nociceptive behavior. <i>Development (Cambridge)</i> , 2021 , 148,	6.6	3
165	Quantitative neuronal morphometry by supervised and unsupervised learning. <i>STAR Protocols</i> , 2021 , 2, 100867	1.4	2
164	Schematic memory persistence and transience for efficient and robust continual learning. <i>Neural Networks</i> , 2021 , 144, 49-60	9.1	0
163	Spiking Neural Networks and Hippocampal Function: A Web-Accessible Survey of Simulations, Modeling Methods, and Underlying Theories. <i>Cognitive Systems Research</i> , 2021 , 70, 80-92	4.8	0
162	A Method for Estimating the Potential Synaptic Connections Between Axons and Dendrites From 2D Neuronal Images. <i>Bio-protocol</i> , 2021 , 11, e4073	0.9	2
161	Distinct Relations of Microtubules and Actin Filaments with Dendritic Architecture. <i>IScience</i> , 2020 , 23, 101865	6.1	8
160	Itinerant complexity in networks of intrinsically bursting neurons. <i>Chaos</i> , 2020 , 30, 061106	3.3	2
159	Operations Research Methods for Estimating the Population Size of Neuron Types. <i>Annals of Operations Research</i> , 2020 , 289, 33-50	3.2	5
158	An open-source framework for neuroscience metadata management applied to digital reconstructions of neuronal morphology. <i>Brain Informatics</i> , 2020 , 7, 2	5.9	4
157	A comprehensive knowledge base of synaptic electrophysiology in the rodent hippocampal formation. <i>Hippocampus</i> , 2020 , 30, 314-331	3.5	9
156	Molecular expression profiles of morphologically defined hippocampal neuron types: Empirical evidence and relational inferences. <i>Hippocampus</i> , 2020 , 30, 472-487	3.5	7
155	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020 , 23, 1456-1468	25.5	76
154	Simple models of quantitative firing phenotypes in hippocampal neurons: Comprehensive coverage of intrinsic diversity. <i>PLoS Computational Biology</i> , 2019 , 15, e1007462	5	13
153	Cell numbers, distribution, shape, and regional variation throughout the murine hippocampal formation from the adult brain Allen Reference Atlas. <i>Brain Structure and Function</i> , 2019 , 224, 2883-2897	4	10
152	PaperBot: open-source web-based search and metadata organization of scientific literature. <i>BMC Bioinformatics</i> , 2019 , 20, 50	3.6	5
151	Neuron Names: A Gene- and Property-Based Name Format, With Special Reference to Cortical Neurons. <i>Frontiers in Neuroanatomy</i> , 2019 , 13, 25	3.6	12
150	Genetic Single Neuron Anatomy Reveals Fine Granularity of Cortical Axo-Axonic Cells. <i>Cell Reports</i> , 2019 , 26, 3145-3159.e5	10.6	29

149	Quantitative firing pattern phenotyping of hippocampal neuron types. <i>Scientific Reports</i> , 2019 , 9, 17915	4.9	18
148	An open repository for single-cell reconstructions of the brain forest. <i>Scientific Data</i> , 2018 , 5, 180006	8.2	23
147	Design and implementation of multi-signal and time-varying neural reconstructions. <i>Scientific Data</i> , 2018 , 5, 170207	8.2	17
146	Morphological determinants of dendritic arborization neurons in <i>Drosophila</i> larva. <i>Brain Structure and Function</i> , 2018 , 223, 1107-1120	4	10
145	Evolving Simple Models of Diverse Intrinsic Dynamics in Hippocampal Neuron Types. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 8	3.9	13
144	Systematic Data Mining of Hippocampal Synaptic Properties. <i>Springer Series in Computational Neuroscience</i> , 2018 , 441-471	1.1	2
143	Win-win data sharing in neuroscience. <i>Nature Methods</i> , 2017 , 14, 112-116	21.6	36
142	Molecular fingerprinting of principal neurons in the rodent hippocampus: A neuroinformatics approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 144, 269-278	3.5	13
141	Structural Plasticity in Dendrites: Developmental Neurogenetics, Morphological Reconstructions, and Computational Modeling 2017 , 1-34		6
140	An ontology-based search engine for digital reconstructions of neuronal morphology. <i>Brain Informatics</i> , 2017 , 4, 123-134	5.9	6
139	Automatic tracing of ultra-volumes of neuronal images. <i>Nature Methods</i> , 2017 , 14, 332-333	21.6	52
138	Weighing the Evidence in PetersRRule: Does Neuronal Morphology Predict Connectivity?. <i>Trends in Neurosciences</i> , 2017 , 40, 63-71	13.3	58
137	Dendritic Cytoskeletal Architecture Is Modulated by Combinatorial Transcriptional Regulation in. <i>Genetics</i> , 2017 , 207, 1401-1421	4	23
136	Name-calling in the hippocampus (and beyond): coming to terms with neuron types and properties. <i>Brain Informatics</i> , 2017 , 4, 1-12	5.9	19
135	Computational Modeling as a Means to Defining Neuronal Spike Pattern Behaviors. <i>Springer INdAM Series</i> , 2017 , 25-43	0.4	1
134	Metrics for comparing neuronal tree shapes based on persistent homology. <i>PLoS ONE</i> , 2017 , 12, e0182184	3.7	25
133	Neurochemical Markers in the Mammalian Brain: Structure, Roles in Synaptic Communication, and Pharmacological Relevance. <i>Current Medicinal Chemistry</i> , 2017 , 24, 3077-3103	4.3	11
132	In search of a periodic table of the neurons: Axonal-dendritic circuitry as the organizing principle: Patterns of axons and dendrites within distinct anatomical parcels provide the blueprint for circuit-based neuronal classification. <i>BioEssays</i> , 2016 , 38, 969-76	4.1	15

131	Differential Arc expression in the hippocampus and striatum during the transition from attentive to automatic navigation on a plus maze. <i>Neurobiology of Learning and Memory</i> , 2016 , 131, 36-45	3.1	11
130	Graph Theoretic and Motif Analyses of the Hippocampal Neuron Type Potential Connectome. <i>ENeuro</i> , 2016 , 3,	3.9	15
129	The importance of metadata to assess information content in digital reconstructions of neuronal morphology. <i>Cell and Tissue Research</i> , 2015 , 360, 121-7	4.2	18
128	The natural frequency of human prospective memory increases with age. <i>Psychology and Aging</i> , 2015 , 30, 209-19	3.6	23
127	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. <i>Neuron</i> , 2015 , 87, 252-6	13.9	147
126	A neural mechanism for background information-gated learning based on axonal-dendritic overlaps. <i>PLoS Computational Biology</i> , 2015 , 11, e1004155	5	5
125	Towards the automatic classification of neurons. <i>Trends in Neurosciences</i> , 2015 , 38, 307-18	13.3	60
124	Topological characterization of neuronal arbor morphology via sequence representation: I--motif analysis. <i>BMC Bioinformatics</i> , 2015 , 16, 216	3.6	20
123	Topological characterization of neuronal arbor morphology via sequence representation: II--global alignment. <i>BMC Bioinformatics</i> , 2015 , 16, 209	3.6	17
122	On Synaptic Circuits, Memory, and Kumquats. <i>New England Journal of Medicine</i> , 2015 , 373, 1170-2	59.2	2
121	Distinct and synergistic feedforward inhibition of pyramidal cells by basket and bistratified interneurons. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 439	6.1	7
120	Sharing Neuron Data: Carrots, Sticks, and Digital Records. <i>PLoS Biology</i> , 2015 , 13, e1002275	9.7	19
119	Older adults report moderately more detailed autobiographical memories. <i>Frontiers in Psychology</i> , 2015 , 6, 631	3.4	13
118	Hippocampome.org: a knowledge base of neuron types in the rodent hippocampus. <i>ELife</i> , 2015 , 4,	8.9	87
117	Doubling up on the fly: NeuroMorpho.Org Meets Big Data. <i>Neuroinformatics</i> , 2015 , 13, 127-9	3.2	12
116	Quantitative investigations of axonal and dendritic arbors: development, structure, function, and pathology. <i>Neuroscientist</i> , 2015 , 21, 241-54	7.6	26
115	Neuroinformatics. <i>Scholarpedia Journal</i> , 2015 , 10, 1312	1.5	17
114	Trees of the Brain, Roots of the Mind 2015 ,		12

113	Morphometric, geographic, and territorial characterization of brain arterial trees. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014 , 30, 755-66	2.6	33
112	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. <i>Nature Communications</i> , 2014 , 5, 4342	17.4	87
111	Neurocognitive models of sense-making. <i>Biologically Inspired Cognitive Architectures</i> , 2014 , 8, 82-89		2
110	Statistical analysis and data mining of digital reconstructions of dendritic morphologies. <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 138	3.6	35
109	Universal Dimensions of Meaning Derived from Semantic Relations among Words and Senses: Mereological Completeness vs. Ontological Generality. <i>Computation</i> , 2014 , 2, 61-82	2.2	3
108	Modulation of hippocampal rhythms by subthreshold electric fields and network topology. <i>Journal of Computational Neuroscience</i> , 2013 , 34, 369-89	1.4	29
107	A secondary working memory challenge preserves primary place strategies despite overtraining. <i>Learning and Memory</i> , 2013 , 20, 648-56	2.8	20
106	Automated image computing reshapes computational neuroscience. <i>BMC Bioinformatics</i> , 2013 , 14, 293	3.6	20
105	Digital reconstruction and morphometric analysis of human brain arterial vasculature from magnetic resonance angiography. <i>NeuroImage</i> , 2013 , 82, 170-81	7.9	60
104	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 202-16	13.5	532
103	Functional impact of dendritic branch-point morphology. <i>Journal of Neuroscience</i> , 2013 , 33, 2156-65	6.6	60
102	Neuronal morphology goes digital: a research hub for cellular and system neuroscience. <i>Neuron</i> , 2013 , 77, 1017-38	13.9	144
101	Augmenting weak semantic cognitive maps with an "abstractness" dimension. <i>Computational Intelligence and Neuroscience</i> , 2013 , 2013, 308176	3	21
100	New insights on vertebrate olivo-cerebellar climbing fibers from computerized morphological reconstructions. <i>Bioarchitecture</i> , 2013 , 3, 38-41		
99	The mind-brain relationship as a mathematical problem. <i>ISRN Neuroscience</i> , 2013 , 2013, 261364		3
98	Measuring and Modeling Morphology: How Dendrites Take Shape 2012 , 387-427		1
97	Non-homogeneous stereological properties of the rat hippocampus from high-resolution 3D serial reconstruction of thin histological sections. <i>Neuroscience</i> , 2012 , 205, 91-111	3.9	21
96	Digital morphometry of rat cerebellar climbing fibers reveals distinct branch and bouton types. <i>Journal of Neuroscience</i> , 2012 , 32, 14670-84	6.6	17

95	Potential connectomics complements the endeavour of No synapse left behind in the cortex. <i>Journal of Physiology</i> , 2012 , 590, 651-2	3.9	3
94	Neuromantic - from semi-manual to semi-automatic reconstruction of neuron morphology. <i>Frontiers in Neuroinformatics</i> , 2012 , 6, 4	3.9	103
93	An ontological approach to describing neurons and their relationships. <i>Frontiers in Neuroinformatics</i> , 2012 , 6, 15	3.9	29
92	Digital reconstructions of neuronal morphology: three decades of research trends. <i>Frontiers in Neuroscience</i> , 2012 , 6, 49	5.1	84
91	Quantitative measurements of autobiographical memory content. <i>PLoS ONE</i> , 2012 , 7, e44809	3.7	12
90	Automated reconstruction of neuronal morphology: an overview. <i>Brain Research Reviews</i> , 2011 , 67, 94-102		103
89	Communication structure of cortical networks. <i>Frontiers in Computational Neuroscience</i> , 2011 , 5, 6	3.5	11
88	Potential Synaptic Connectivity of Different Neurons onto Pyramidal Cells in a 3D Reconstruction of the Rat Hippocampus. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 5	3.9	28
87	Passive and active shaping of unitary responses from associational/commissural and perforant path synapses in hippocampal CA3 pyramidal cells. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 159-82	1.4	13
86	A computer model of unitary responses from associational/commissural and perforant path synapses in hippocampal CA3 pyramidal cells. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 137-58	1.4	15
85	Axonal morphometry of hippocampal pyramidal neurons semi-automatically reconstructed after in vivo labeling in different CA3 locations. <i>Brain Structure and Function</i> , 2011 , 216, 1-15	4	35
84	The DIADEM data sets: representative light microscopy images of neuronal morphology to advance automation of digital reconstructions. <i>Neuroinformatics</i> , 2011 , 9, 143-57	3.2	100
83	The DIADEM metric: comparing multiple reconstructions of the same neuron. <i>Neuroinformatics</i> , 2011 , 9, 233-45	3.2	70
82	Local control of postinhibitory rebound spiking in CA1 pyramidal neuron dendrites. <i>Journal of Neuroscience</i> , 2010 , 30, 6434-42	6.6	52
81	Principal semantic components of language and the measurement of meaning. <i>PLoS ONE</i> , 2010 , 5, e109217	3.7	19
80	CA3 Cells: Detailed and Simplified Pyramidal Cell Models 2010 , 353-374		1
79	Dendritic excitability and neuronal morphology as determinants of synaptic efficacy. <i>Journal of Neurophysiology</i> , 2009 , 101, 1847-66	3.2	46
78	Feed-forward inhibition as a buffer of the neuronal input-output relation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18004-9	11.5	53

77	Quantitative morphometry of electrophysiologically identified CA3b interneurons reveals robust local geometry and distinct cell classes. <i>Journal of Comparative Neurology</i> , 2009 , 515, 677-95	3.4	32
76	Toward a semantic general theory of everything. <i>Complexity</i> , 2009 , 15, NA-NA	1.6	10
75	Review of papers describing neuroinformatics software. <i>Neuroinformatics</i> , 2009 , 7, 211-2	3.2	1
74	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2008 , 9, 557-68	13.5	1092
73	L-Measure: a web-accessible tool for the analysis, comparison and search of digital reconstructions of neuronal morphologies. <i>Nature Protocols</i> , 2008 , 3, 866-76	18.8	208
72	Effects of synaptic synchrony on the neuronal input-output relationship. <i>Neural Computation</i> , 2008 , 20, 1717-31	2.9	6
71	Quantifying neuronal size: summing up trees and splitting the branch difference. <i>Seminars in Cell and Developmental Biology</i> , 2008 , 19, 485-93	7.5	45
70	A comparative computer simulation of dendritic morphology. <i>PLoS Computational Biology</i> , 2008 , 4, e1000089	4.8	48
69	Science of the conscious mind. <i>Biological Bulletin</i> , 2008 , 215, 204-15	1.5	10
68	Computational models of neuronal biophysics and the characterization of potential neuropharmacological targets. <i>Current Medicinal Chemistry</i> , 2008 , 15, 2456-71	4.3	20
67	The neuroscience information framework: a data and knowledge environment for neuroscience. <i>Neuroinformatics</i> , 2008 , 6, 149-60	3.2	148
66	The NIF LinkOut broker: a web resource to facilitate federated data integration using NCBI identifiers. <i>Neuroinformatics</i> , 2008 , 6, 219-27	3.2	15
65	NeuroMorpho.Org implementation of digital neuroscience: dense coverage and integration with the NIF. <i>Neuroinformatics</i> , 2008 , 6, 241-52	3.2	52
64	The NIFSTD and BIRNLex vocabularies: building comprehensive ontologies for neuroscience. <i>Neuroinformatics</i> , 2008 , 6, 175-94	3.2	111
63	Distinct classes of pyramidal cells exhibit mutually exclusive firing patterns in hippocampal area CA3b. <i>Hippocampus</i> , 2008 , 18, 411-24	3.5	89
62	Self-sustaining non-repetitive activity in a large scale neuronal-level model of the hippocampal circuit. <i>Neural Networks</i> , 2008 , 21, 1153-63	9.1	2
61	Computational Neuroanatomy of the Rat Hippocampus 2008 , 71-VII		1
60	Biomedical research funding: when the game gets tough, winners start to play. <i>BioEssays</i> , 2007 , 29, 933-41	4.1	4

59	Successful grant fishing in funding droughts. <i>Nature Cell Biology</i> , 2007 , 9, 856-7	23.4	
58	Morphological characterization of electrophysiologically and immunohistochemically identified basal forebrain cholinergic and neuropeptide Y-containing neurons. <i>Brain Structure and Function</i> , 2007 , 212, 55-73	4	32
57	Value added by data sharing: long-term potentiation of neuroscience research. A commentary on the 2007 SfN Satellite Symposium on data sharing. <i>Neuroinformatics</i> , 2007 , 5, 143-5	3.2	10
56	Successes and rewards in sharing digital reconstructions of neuronal morphology. <i>Neuroinformatics</i> , 2007 , 5, 154-60	3.2	23
55	NeuroMorpho.Org: a central resource for neuronal morphologies. <i>Journal of Neuroscience</i> , 2007 , 27, 9247-51	6.6	426
54	Drug binding to human serum albumin: abridged review of results obtained with high-performance liquid chromatography and circular dichroism. <i>Chirality</i> , 2006 , 18, 667-79	2.1	121
53	Effects of beta-catenin on dendritic morphology and simulated firing patterns in cultured hippocampal neurons. <i>Biological Bulletin</i> , 2006 , 211, 31-43	1.5	7
52	Morphological homeostasis in cortical dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1569-74	11.5	55
51	Scarcity begets addiction. <i>Behavioral and Brain Sciences</i> , 2006 , 29, 178-178	0.9	26
50	Mobilizing the base of neuroscience data: the case of neuronal morphologies. <i>Nature Reviews Neuroscience</i> , 2006 , 7, 318-24	13.5	179
49	Computational simulation of the input-output relationship in hippocampal pyramidal cells. <i>Journal of Computational Neuroscience</i> , 2006 , 21, 191-209	1.4	25
48	Neuron and Network Modeling 2006 , 604-630		2
47	Brain and Mind at the Crossroad of Time. <i>Cortex</i> , 2005 , 41, 619-620	3.8	5
46	The conscious self: ontology, epistemology and the mirror quest. <i>Cortex</i> , 2005 , 41, 621-36; discussion 731-4	3.8	19
45	Incorporating anatomically realistic cellular-level connectivity in neural network models of the rat hippocampus. <i>BioSystems</i> , 2005 , 79, 173-81	1.9	22
44	A cross-platform freeware tool for digital reconstruction of neuronal arborizations from image stacks. <i>Neuroinformatics</i> , 2005 , 3, 343-60	3.2	42
43	Algorithmic description of hippocampal granule cell dendritic morphology. <i>Neurocomputing</i> , 2005 , 65-66, 253-260	5.4	7
42	Algorithmic reconstruction of complete axonal arborizations in rat hippocampal neurons. <i>Neurocomputing</i> , 2005 , 65-66, 15-22	5.4	14

41	Statistical determinants of dendritic morphology in hippocampal pyramidal neurons: A hidden Markov model. <i>Hippocampus</i> , 2005 , 15, 166-83	3.5	44
40	Developmental changes in spinal motoneuron dendrites in neonatal mice. <i>Journal of Comparative Neurology</i> , 2005 , 483, 304-17	3.4	42
39	Local diameter fully constrains dendritic size in basal but not apical trees of CA1 pyramidal neurons. <i>Journal of Computational Neuroscience</i> , 2005 , 19, 223-38	1.4	18
38	A simple neural network model of the hippocampus suggesting its pathfinding role in episodic memory retrieval. <i>Learning and Memory</i> , 2005 , 12, 193-208	2.8	65
37	Signal propagation in oblique dendrites of CA1 pyramidal cells. <i>Journal of Neurophysiology</i> , 2005 , 94, 4145-55	3.2	66
36	Quantitative morphometry of hippocampal pyramidal cells: differences between anatomical classes and reconstructing laboratories. <i>Journal of Comparative Neurology</i> , 2004 , 473, 177-93	3.4	73
35	Towards effective and rewarding data sharing. <i>Neuroinformatics</i> , 2003 , 1, 289-95	3.2	63
34	Statistical morphological analysis of hippocampal principal neurons indicates cell-specific repulsion of dendrites from their own cell. <i>Journal of Neuroscience Research</i> , 2003 , 71, 173-87	4.4	43
33	Passive dendritic integration heavily affects spiking dynamics of recurrent networks. <i>Neural Networks</i> , 2003 , 16, 657-63	9.1	13
32	Web-Based Neuronal Archives 2003 , 81-97		
31	Effects of dendritic morphology on CA3 pyramidal cell electrophysiology: a simulation study. <i>Brain Research</i> , 2002 , 941, 11-28	3.7	123
30	A real-scale anatomical model of the dentate gyrus based on single cell reconstructions and 3D rendering of a brain atlas. <i>Neurocomputing</i> , 2002 , 44-46, 629-634	5.4	7
29	A new bursting model of CA3 pyramidal cell physiology suggests multiple locations for spike initiation. <i>BioSystems</i> , 2002 , 67, 129-37	1.9	42
28	Neuroanatomical algorithms for dendritic modelling. <i>Network: Computation in Neural Systems</i> , 2002 , 13, 247-260	0.7	32
27	Computational Neuroanatomy 2002 ,		18
26	Neuroanatomical algorithms for dendritic modelling. <i>Network: Computation in Neural Systems</i> , 2002 , 13, 247-60	0.7	15
25	Computer generation and quantitative morphometric analysis of virtual neurons. <i>Anatomy and Embryology</i> , 2001 , 204, 283-301		69
24	Relation between neuronal morphology and electrophysiology in the Kainate lesion model of Alzheimer's Disease. <i>Neurocomputing</i> , 2001 , 38-40, 1477-1487	5.4	11

23	Generation, description and storage of dendritic morphology data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001 , 356, 1131-45	5.8	92
22	Algorithmic Extraction of Morphological Statistics from Electronic Archives of Neuroanatomy. <i>Lecture Notes in Computer Science</i> , 2001 , 30-37	0.9	18
21	The complex link between neuroanatomy and consciousness. <i>Complexity</i> , 2000 , 6, 20-26	1.6	5
20	L-neuron: A modeling tool for the efficient generation and parsimonious description of dendritic morphology. <i>Neurocomputing</i> , 2000 , 32-33, 1003-1011	5.4	70
19	Reconstruction of brain networks by algorithmic amplification of morphometry data. <i>Lecture Notes in Computer Science</i> , 1999 , 25-33	0.9	11
18	Progress and perspectives in computational neuroanatomy. <i>The Anatomical Record</i> , 1999 , 257, 195-207		53
17	Is it already time to give up on a science of consciousness?. <i>Complexity</i> , 1999 , 5, 25-34	1.6	4
16	Robust Resting-State Dynamics in a Large-Scale Spiking Neural Network Model of Area CA3 in the Mouse Hippocampus. <i>Cognitive Computation</i> , 1	4.4	0
15	Computing the Brain and the Computing Brain03-24		3
14	Practical Aspects in Anatomically Accurate Simulations of Neuronal Electrophysiology127-148		5
13	Generation and Description of Neuronal Morphology Using L-Neuron: A Case Study49-70		10
12	Formin3 regulates dendritic architecture via microtubule stabilization and is required for somatosensory nociceptive behavior		1
11	Connectivity characterization of the mouse basolateral amygdalar complex		2
10	Distinct relations of microtubules and actin filaments with dendritic architecture		1
9	Neuroanatomical algorithms for dendritic modelling		18
8	The mouse cortico-tectal projectome		2
7	Cellular Anatomy of the Mouse Primary Motor Cortex		8
6	A multimodal cell census and atlas of the mammalian primary motor cortex		12

5	A comprehensive knowledge base of synaptic electrophysiology in the rodent hippocampal formation	2
4	Automatic Tracing of Ultra-Volume of Neuronal Images	1
3	Metrics for comparing Neuronal Tree Shapes based on Persistent Homology	1
2	Quantification of neuron types in the rodent hippocampal formation by data mining and numerical optimization	1
1	MorphoHub: A Platform for Petabyte-Scale Multi-Morphometry Generation	1