

Sean L Hill

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1463944/publications.pdf>

Version: 2024-02-01

70
papers

9,038
citations

172207

29
h-index

118652

62
g-index

81
all docs

81
docs citations

81
times ranked

10899
citing authors

#	ARTICLE	IF	CITATIONS
1	Conceptualising fairness: three pillars for medical algorithms and health equity. <i>BMJ Health and Care Informatics</i> , 2022, 29, e100459.	1.4	22
2	International data governance for neuroscience. <i>Neuron</i> , 2022, 110, 600-612.	3.8	28
3	The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types. <i>Neuroinformatics</i> , 2022, 20, 793-809.	1.5	3
4	Cortical Columns, Models of. , 2022, , 1037-1040.		0
5	Digitization of Measurement-Based Care Pathways in Mental Health Through REDCap and Electronic Health Record Integration: Development and Usability Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e25656.	2.1	19
6	Symptom dimensions of major depression in a large community-based cohort. <i>Psychological Medicine</i> , 2021, , 1-8.	2.7	3
7	Rodent somatosensory thalamocortical circuitry: Neurons, synapses, and connectivity. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 126, 213-235.	2.9	13
8	Association of accelerometer-derived sleep measures with lifetime psychiatric diagnoses: A cross-sectional study of 89,205 participants from the UK Biobank. <i>PLoS Medicine</i> , 2021, 18, e1003782.	3.9	28
9	GABA-mediated tonic inhibition differentially modulates gain in functional subtypes of cortical interneurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3192-3202.	3.3	33
10	Experimentally-constrained biophysical models of tonic and burst firing modes in thalamocortical neurons. <i>PLoS Computational Biology</i> , 2019, 15, e1006753.	1.5	33
11	Morningness-eveningness scores predict outcomes differentially for depressed patients attending morning vs. afternoon day treatment streams. <i>Chronobiology International</i> , 2019, 36, 1581-1591.	0.9	2
12	<i>SCN1A</i> gain of function in early infantile encephalopathy. <i>Annals of Neurology</i> , 2019, 85, 514-525.	2.8	76
13	Towards a supervised classification of neocortical interneuron morphologies. <i>BMC Bioinformatics</i> , 2018, 19, 511.	1.2	17
14	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology</i> , The, 2017, 16, 987-1048.	4.9	1,571
15	A Framework for Collaborative Curation of Neuroscientific Literature. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 27.	1.3	7
16	Comments and General Discussion on "The Anatomical Problem Posed by Brain Complexity and Size: A Potential Solution". <i>Frontiers in Neuroanatomy</i> , 2016, 10, 60.	0.9	13
17	Data Publications Correlate with Citation Impact. <i>Frontiers in Neuroscience</i> , 2016, 10, 419.	1.4	14
18	How do we know what we know? Discovering neuroscience data sets through minimal metadata. <i>Nature Reviews Neuroscience</i> , 2016, 17, 735-736.	4.9	3

#	ARTICLE	IF	CITATIONS
19	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. <i>Neuron</i> , 2016, 92, 622-627.	3.8	46
20	Reconstructing the brain: from image stacks to neuron synthesis. <i>Brain Informatics</i> , 2016, 3, 205-209.	1.8	9
21	The Resource Identification Initiative: A Cultural Shift in Publishing. <i>Neuroinformatics</i> , 2016, 14, 169-182.	1.5	26
22	Brainhack: a collaborative workshop for the open neuroscience community. <i>GigaScience</i> , 2016, 5, 16.	3.3	34
23	The Resource Identification Initiative: A cultural shift in publishing. <i>Journal of Comparative Neurology</i> , 2016, 524, 8-22.	0.9	32
24	The Resource Identification Initiative: a cultural shift in publishing. <i>Brain and Behavior</i> , 2016, 6, e00417.	1.0	37
25	Automatic target validation based on neuroscientific literature mining for tractography. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 66.	0.9	9
26	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. <i>Frontiers in Neural Circuits</i> , 2015, 9, 44.	1.4	138
27	Large-scale extraction of brain connectivity from the neuroscientific literature. <i>Bioinformatics</i> , 2015, 31, 1640-1647.	1.8	21
28	Agile text mining with Sherlock. , 2015, , .		5
29	Feeding the human brain model. <i>Current Opinion in Neurobiology</i> , 2015, 32, 107-114.	2.0	17
30	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. <i>Neuron</i> , 2015, 87, 252-256.	3.8	202
31	Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI). <i>Neurosurgery</i> , 2015, 76, 67-80.	0.6	386
32	Reconstruction and Simulation of Neocortical Microcircuitry. <i>Cell</i> , 2015, 163, 456-492.	13.5	1,258
33	The Resource Identification Initiative: A cultural shift in publishing. <i>F1000Research</i> , 2015, 4, 134.	0.8	47
34	The Resource Identification Initiative: A cultural shift in publishing. <i>F1000Research</i> , 2015, 4, 134.	0.8	42
35	Cortical Columns, Models of. , 2015, , 868-871.		0
36	Interoperable atlases of the human brain. <i>NeuroImage</i> , 2014, 99, 525-532.	2.1	78

#	ARTICLE	IF	CITATIONS
37	A Biophysically Detailed Model of Neocortical Local Field Potentials Predicts the Critical Role of Active Membrane Currents. <i>Neuron</i> , 2013, 79, 375-390.	3.8	259
38	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	4.9	707
39	A Hierarchical Structure of Cortical Interneuron Electrical Diversity Revealed by Automated Statistical Analysis. <i>Cerebral Cortex</i> , 2013, 23, 2994-3006.	1.6	63
40	Intrinsic morphological diversity of thick- <i>apical</i> tufted layer 5 pyramidal neurons ensures robust and invariant properties of <i>in silico</i> synaptic connections. <i>Journal of Physiology</i> , 2012, 590, 737-752.	1.3	44
41	Statistical connectivity provides a sufficient foundation for specific functional connectivity in neocortical neural microcircuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2885-94.	3.3	178
42	Combinatorial Expression Rules of Ion Channel Genes in Juvenile Rat (<i>Rattus norvegicus</i>) Neocortical Neurons. <i>PLoS ONE</i> , 2012, 7, e34786.	1.1	14
43	A Neuron Membrane Mesh Representation for Visualization of Electrophysiological Simulations. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 214-227.	2.9	34
44	Computational Neuroscience Ontology: a new tool to provide semantic meaning to your models. <i>BMC Neuroscience</i> , 2012, 13, .	0.8	10
45	Channelpedia: An Integrative and Interactive Database for Ion Channels. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 36.	1.3	65
46	NineML: the network interchange for neuroscience modeling language. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	27
47	Models of Neocortical Layer 5b Pyramidal Cells Capturing a Wide Range of Dendritic and Perisomatic Active Properties. <i>PLoS Computational Biology</i> , 2011, 7, e1002107.	1.5	313
48	Effective Stimuli for Constructing Reliable Neuron Models. <i>PLoS Computational Biology</i> , 2011, 7, e1002133.	1.5	49
49	A Component-Based Extension Framework for Large-Scale Parallel Simulations in NEURON. <i>Frontiers in Neuroinformatics</i> , 2009, 3, 10.	1.3	18
50	Modeling the effects of midazolam on cortical and thalamic neurons. <i>Neuroscience Letters</i> , 2009, 464, 135-139.	1.0	4
51	Breakdown of Effective Connectivity During Slow Wave Sleep: Investigating the Mechanism Underlying a Cortical Gate Using Large-Scale Modeling. <i>Journal of Neurophysiology</i> , 2009, 102, 2096-2111.	0.9	118
52	Modeling the Gabaergic Action of Etomidate on the Thalamocortical System. <i>Anesthesia and Analgesia</i> , 2009, 108, 160-167.	1.1	11
53	An Approach to Capturing Neuron Morphological Diversity. , 2009, , 211-232.		16
54	Evaluating automated parameter constraining procedures of neuron models by experimental and surrogate data. <i>Biological Cybernetics</i> , 2008, 99, 371-379.	0.6	53

#	ARTICLE	IF	CITATIONS
55	Identifying, tabulating, and analyzing contacts between branched neuron morphologies. IBM Journal of Research and Development, 2008, 52, 43-55.	3.2	29
56	Sleep improves the variability of motor performance. Brain Research Bulletin, 2008, 76, 605-611.	1.4	58
57	“The Blue Brain Project”. , 2008, , .		4
58	Network-Related Challenges and Insights from Neuroscience. Lecture Notes in Computer Science, 2008, , 67-78.	1.0	2
59	Sleep Homeostasis and Cortical Synchronization: I. Modeling the Effects of Synaptic Strength on Sleep Slow Waves. Sleep, 2007, 30, 1617-1630.	0.6	288
60	The Blue Brain Project: building the neocortical column. BMC Neuroscience, 2007, 8, .	0.8	2
61	The Blue Brain Project: calibrating the neocortical column. BMC Neuroscience, 2007, 8, .	0.8	1
62	Modeling Sleep and Wakefulness in the Thalamocortical System. Journal of Neurophysiology, 2005, 93, 1671-1698.	0.9	372
63	Reduced sleep in Drosophila Shaker mutants. Nature, 2005, 434, 1087-1092.	13.7	420
64	Modeling the Effects of Transcranial Magnetic Stimulation on Cortical Circuits. Journal of Neurophysiology, 2005, 94, 622-639.	0.9	189
65	The Sleep Slow Oscillation as a Traveling Wave. Journal of Neuroscience, 2004, 24, 6862-6870.	1.7	1,002
66	Sleep Homeostasis in Drosophila Melanogaster. Sleep, 2004, 27, 628-639.	0.6	362
67	Dynamic transitions in global network activity influenced by the balance of excitation and inhibition. Network: Computation in Neural Systems, 1997, 8, 165-184.	2.2	21
68	Individualized real-time prediction of working memory performance by classifying electroencephalography signals. International Journal of Imaging Systems and Technology, 0, , .	2.7	2
69	Dynamic transitions in global network activity influenced by the balance of excitation and inhibition. , 0, .		20
70	OMNI: Towards a comprehensive object model for neuroinformatics. Frontiers in Neuroinformatics, 0, 5, .	1.3	0