## Sean L Hill

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. Lancet Neurology, The, 2017, 16, 987-1048.	4.9	1,571
2	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	13.5	1,258
3	The Sleep Slow Oscillation as a Traveling Wave. Journal of Neuroscience, 2004, 24, 6862-6870.	1.7	1,002
4	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	4.9	707
5	Reduced sleep in Drosophila Shaker mutants. Nature, 2005, 434, 1087-1092.	13.7	420
6	Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI). Neurosurgery, 2015, 76, 67-80.	0.6	386
7	Modeling Sleep and Wakefulness in the Thalamocortical System. Journal of Neurophysiology, 2005, 93, 1671-1698.	0.9	372
8	Sleep Homeostasis in Drosophila Melanogaster. Sleep, 2004, 27, 628-639.	0.6	362
9	Models of Neocortical Layer 5b Pyramidal Cells Capturing aÂWide Range of Dendritic and Perisomatic Active Properties. PLoS Computational Biology, 2011, 7, e1002107.	1.5	313
10	Sleep Homeostasis and Cortical Synchronization: I. Modeling the Effects of Synaptic Strength on Sleep Slow Waves. Sleep, 2007, 30, 1617-1630.	0.6	288
11	A Biophysically Detailed Model of Neocortical Local Field Potentials Predicts the Critical Role of Active Membrane Currents. Neuron, 2013, 79, 375-390.	3.8	259
12	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. Neuron, 2015, 87, 252-256.	3.8	202
13	Modeling the Effects of Transcranial Magnetic Stimulation on Cortical Circuits. Journal of Neurophysiology, 2005, 94, 622-639.	0.9	189
14	Statistical connectivity provides a sufficient foundation for specific functional connectivity in neocortical neural microcircuits. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2885-94.	3.3	178
15	The neocortical microcircuit collaboration portal: a resource for rat somatosensory cortex. Frontiers in Neural Circuits, 2015, 9, 44.	1.4	138
16	Breakdown of Effective Connectivity During Slow Wave Sleep: Investigating the Mechanism Underlying a Cortical Gate Using Large-Scale Modeling. Journal of Neurophysiology, 2009, 102, 2096-2111.	0.9	118
17	Interoperable atlases of the human brain. NeuroImage, 2014, 99, 525-532.	2.1	78
18	<i>SCN1A</i> gain of function in early infantile encephalopathy. Annals of Neurology, 2019, 85, 514-525.	2.8	76

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19	Channelpedia: An Integrative and Interactive Database for Ion Channels. Frontiers in Neuroinformatics, 2011, 5, 36.	1.3	65
20	A Hierarchical Structure of Cortical Interneuron Electrical Diversity Revealed by Automated Statistical Analysis. Cerebral Cortex, 2013, 23, 2994-3006.	1.6	63
21	Sleep improves the variability of motor performance. Brain Research Bulletin, 2008, 76, 605-611.	1.4	58
22	Evaluating automated parameter constraining procedures of neuron models by experimental and surrogate data. Biological Cybernetics, 2008, 99, 371-379.	0.6	53
23	Effective Stimuli for Constructing Reliable Neuron Models. PLoS Computational Biology, 2011, 7, e1002133.	1.5	49
24	The Resource Identification Initiative: A cultural shift in publishing. F1000Research, 2015, 4, 134.	0.8	47
25	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. Neuron, 2016, 92, 622-627.	3.8	46
26	Intrinsic morphological diversity of thickâ€ŧufted layer 5 pyramidal neurons ensures robust and invariant properties of <i>in silico</i> synaptic connections. Journal of Physiology, 2012, 590, 737-752.	1.3	44
27	The Resource Identification Initiative: A cultural shift in publishing. F1000Research, 2015, 4, 134.	0.8	42
28	The Resource Identification Initiative: a cultural shift in publishing. Brain and Behavior, 2016, 6, e00417.	1.0	37
29	A Neuron Membrane Mesh Representation for Visualization of Electrophysiological Simulations. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 214-227.	2.9	34
30	Brainhack: a collaborative workshop for the open neuroscience community. GigaScience, 2016, 5, 16.	3.3	34
31	Experimentally-constrained biophysical models of tonic and burst firing modes in thalamocortical neurons. PLoS Computational Biology, 2019, 15, e1006753.	1.5	33
32	GABA-mediated tonic inhibition differentially modulates gain in functional subtypes of cortical interneurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3192-3202.	3.3	33
33	The Resource Identification Initiative: A cultural shift in publishing. Journal of Comparative Neurology, 2016, 524, 8-22.	0.9	32
34	Identifying, tabulating, and analyzing contacts between branched neuron morphologies. IBM Journal of Research and Development, 2008, 52, 43-55.	3.2	29
35	Association of accelerometer-derived sleep measures with lifetime psychiatric diagnoses: A cross-sectional study of 89,205 participants from the UK Biobank. PLoS Medicine, 2021, 18, e1003782.	3.9	28
36	International data governance for neuroscience. Neuron, 2022, 110, 600-612.	3.8	28

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37	NineML: the network interchange for ne uroscience modeling language. BMC Neuroscience, 2011, 12, .	0.8	27
38	The Resource Identification Initiative: A Cultural Shift in Publishing. Neuroinformatics, 2016, 14, 169-182.	1.5	26
39	Conceptualising fairness: three pillars for medical algorithms and health equity. BMJ Health and Care Informatics, 2022, 29, e100459.	1.4	22
40	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
41	Large-scale extraction of brain connectivity from the neuroscientific literature. Bioinformatics, 2015, 31, 1640-1647.	1.8	21
42	Dynamic transitions in global network activity influenced by the balance of excitation and inhibition. , 0, .		20
43	Digitization of Measurement-Based Care Pathways in Mental Health Through REDCap and Electronic Health Record Integration: Development and Usability Study. Journal of Medical Internet Research, 2021, 23, e25656.	2.1	19
44	A Component-Based Extension Framework for Large-Scale Parallel Simulations in NEURON. Frontiers in Neuroinformatics, 2009, 3, 10.	1.3	18
45	Feeding the human brain model. Current Opinion in Neurobiology, 2015, 32, 107-114.	2.0	17
46	Towards a supervised classification of neocortical interneuron morphologies. BMC Bioinformatics, 2018, 19, 511.	1.2	17
47	An Approach to Capturing Neuron Morphological Diversity. , 2009, , 211-232.		16
48	Combinatorial Expression Rules of Ion Channel Genes in Juvenile Rat (Rattus norvegicus) Neocortical Neurons. PLoS ONE, 2012, 7, e34786.	1.1	14
49	Data Publications Correlate with Citation Impact. Frontiers in Neuroscience, 2016, 10, 419.	1.4	14
50	Comments and General Discussion on "The Anatomical Problem Posed by Brain Complexity and Size: A Potential Solution― Frontiers in Neuroanatomy, 2016, 10, 60.	0.9	13
51	Rodent somatosensory thalamocortical circuitry: Neurons, synapses, and connectivity. Neuroscience and Biobehavioral Reviews, 2021, 126, 213-235.	2.9	13
52	Modeling the Gabaergic Action of Etomidate on the Thalamocortical System. Anesthesia and Analgesia, 2009, 108, 160-167.	1.1	11
53	Computational Neuroscience Ontology: a new tool to provide semantic meaning to your models. BMC Neuroscience, 2012, 13, .	0.8	10
54	Automatic target validation based on neuroscientific literature mining for tractography. Frontiers in Neuroanatomy, 2015, 9, 66.	0.9	9

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55	Reconstructing the brain: from image stacks to neuron synthesis. Brain Informatics, 2016, 3, 205-209.	1.8	9
56	A Framework for Collaborative Curation of Neuroscientific Literature. Frontiers in Neuroinformatics, 2017, 11, 27.	1.3	7
57	Agile text mining with Sherlok. , 2015, , .		5
58	"The Blue Brain Project". , 2008, , .		4
59	Modeling the effects of midazolam on cortical and thalamic neurons. Neuroscience Letters, 2009, 464, 135-139.	1.0	4
60	How do we know what we know? Discovering neuroscience data sets through minimal metadata. Nature Reviews Neuroscience, 2016, 17, 735-736.	4.9	3
61	Symptom dimensions of major depression in a large community-based cohort. Psychological Medicine, 2021, , 1-8.	2.7	3
62	The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types. Neuroinformatics, 2022, 20, 793-809.	1.5	3
63	The Blue Brain Project: building the neocortical column. BMC Neuroscience, 2007, 8, .	0.8	2
64	Morningness-eveningness scores predict outcomes differentially for depressed patients attending morning vs. afternoon day treatment streams. Chronobiology International, 2019, 36, 1581-1591.	0.9	2
65	Individualized realâ€ŧime prediction of working memory performance by classifying electroencephalography signals. International Journal of Imaging Systems and Technology, 0, , .	2.7	2
66	Network-Related Challenges and Insights from Neuroscience. Lecture Notes in Computer Science, 2008, , 67-78.	1.0	2
67	The Blue Brain Project: calibrating the neocortical column. BMC Neuroscience, 2007, 8, .	0.8	1
68	OMNI: Towards a comprehensive object model for neuroinformatics. Frontiers in Neuroinformatics, 0, 5, .	1.3	0
69	Cortical Columns, Models of. , 2015, , 868-871.		0
70	Cortical Columns, Models of. , 2022, , 1037-1040.		0

Cortical Columns, Models of. , 2022, , 1037-1040. 70