

Sharon M Crook

List of Publications by Year in descending order

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54
papers

1,251
citations

623734

14
h-index

434195

31
g-index

60
all docs

60
docs citations

60
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	NeuroML: A Language for Describing Data Driven Models of Neurons and Networks with a High Degree of Biological Detail. PLoS Computational Biology, 2010, 6, e1000815.	3.2	294
2	Microsaccadic Efficacy and Contribution to Foveal and Peripheral Vision. Journal of Neuroscience, 2012, 32, 9194-9204.	3.6	120
3	LEMS: a language for expressing complex biological models in concise and hierarchical form and its use in underpinning NeuroML 2. Frontiers in Neuroinformatics, 2014, 8, 79.	2.5	109
4	25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54.	1.9	81
5	MorphML: Level 1 of the NeuroML Standards for Neuronal Morphology Data and Model Specification. Neuroinformatics, 2007, 5, 96-104.	2.8	73
6	Open Source Brain: A Collaborative Resource for Visualizing, Analyzing, Simulating, and Developing Standardized Models of Neurons and Circuits. Neuron, 2019, 103, 395-411.e5.	8.1	56
7	Harmonizing semantic annotations for computational models in biology. Briefings in Bioinformatics, 2019, 20, 540-550.	6.5	52
8	Dendritic and synaptic effects in systems of coupled cortical oscillators. Journal of Computational Neuroscience, 1998, 5, 315-329.	1.0	44
9	Fixational Eye Movement Correction of Blink-Induced Gaze Position Errors. PLoS ONE, 2014, 9, e110889.	2.5	41
10	libNeuroML and PyLEMS: using Python to combine procedural and declarative modeling approaches in computational neuroscience. Frontiers in Neuroinformatics, 2014, 8, 38.	2.5	35
11	Learning from the Past: Approaches for Reproducibility in Computational Neuroscience. , 2013, , 73-102.		34
12	International data governance for neuroscience. Neuron, 2022, 110, 600-612.	8.1	28
13	Review: Mathematical Modeling of Prostate Cancer and Clinical Application. Applied Sciences (Switzerland), 2020, 10, 2721.	2.5	26
14	Modulation of inhibitory strength and kinetics facilitates regulation of persistent inward currents and motoneuron excitability following spinal cord injury. Journal of Neurophysiology, 2011, 106, 2167-2179.	1.8	25
15	Relating ion channel expression, bifurcation structure, and diverse firing patterns in a model of an identified motor neuron. Journal of Computational Neuroscience, 2013, 34, 211-229.	1.0	22
16	Drift-diffusion simulation of the ephaptic effect in the triad synapse of the retina. Journal of Computational Neuroscience, 2015, 38, 129-142.	1.0	20
17	The Open Source Brain Initiative: enabling collaborative modelling in computational neuroscience. BMC Neuroscience, 2012, 13, .	1.9	18
18	Modeling the Influence of Ion Channels on Neuron Dynamics in Drosophila. Frontiers in Computational Neuroscience, 2015, 9, 139.	2.1	16

#	ARTICLE	IF	CITATIONS
19	Motoneuron model of self-sustained firing after spinal cord injury. <i>Journal of Computational Neuroscience</i> , 2011, 31, 625-645.	1.0	15
20	Combining hypothesis- and data-driven neuroscience modeling in FAIR workflows. <i>ELife</i> , 0, 11, .	6.0	15
21	Creating, documenting and sharing network models. <i>Network: Computation in Neural Systems</i> , 2012, 23, 131-149.	3.6	14
22	An Animated Introduction to Relational Databases for Many Majors. <i>IEEE Transactions on Education</i> , 2015, 58, 81-89.	2.4	11
23	Tools for neuroinformatic data exchange: an XML application for neuronal morphology data. <i>Neurocomputing</i> , 2004, 58-60, 1091-1095.	5.9	9
24	SwarmSight: Measuring the temporal progression of animal group activity levels from natural-scene and laboratory videos. <i>Behavior Research Methods</i> , 2017, 49, 576-587.	4.0	9
25	Editorial: Reproducibility and Rigour in Computational Neuroscience. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 23.	2.5	8
26	Ontology-assisted keyword search for NeuroML models. , 2015, , .		7
27	Towards systematic, data-driven validation of a collaborative, multi-scale model of <i>Caenorhabditis elegans</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170381.	4.0	7
28	SNaReSim: Synthetic Nanopore Read Simulator. , 2017, , .		6
29	Modeling the synergistic properties of drugs in hormonal treatment for prostate cancer. <i>Journal of Theoretical Biology</i> , 2021, 514, 110570.	1.7	6
30	XML for Data Representation and Model Specification in Neuroscience. <i>Methods in Molecular Biology</i> , 2007, 401, 53-66.	0.9	6
31	Model exchange with the NeuroML model database. <i>BMC Neuroscience</i> , 2014, 15, .	1.9	4
32	Describing and exchanging models of neurons and neuronal networks with NeuroML. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	3
33	Development of NeuroML version 2.0: greater extensibility, support for abstract neuronal models and interaction with Systems Biology languages. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	3
34	Modeling frequency encoding in the cricket cercal sensory system. <i>Neurocomputing</i> , 2002, 44-46, 769-773.	5.9	2
35	Role of inhibition in the suppression of \hat{I}_{\pm} -motoneuron hyper-excitability following chronic spinal cord injury. <i>BMC Neuroscience</i> , 2009, 10, P343.	1.9	2
36	Differential contribution of voltage-dependent potassium currents to neuronal excitability. <i>BMC Neuroscience</i> , 2010, 11, .	1.9	2

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37	SwarmSight: Real-time Tracking of Insect Antenna Movements and Proboscis Extension Reflex Using a Common Preparation and Conventional Hardware. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	2
38	Computational Intelligence in Electrophysiology: Trends and Open Problems. <i>Studies in Computational Intelligence</i> , 2008, , 325-359.	0.9	2
39	Using formative assessment for improving pedagogy. <i>ACM Inroads</i> , 2020, 11, 27-34.	0.6	2
40	Using NeuroML and neuroConstruct to build neuronal network models for multiple simulators. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	1
41	A model of activity-dependent changes in dendritic spine density and spine structure. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	1
42	Predicting changes in neuronal excitability type in response to genetic manipulations of K ⁺ -channels. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	1
43	Passive current transfer in wildtype and genetically modified <i>Drosophila</i> motoneuron dendrites. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	1
44	A declarative model specification system allowing NeuroML to be extended with user-defined component types. <i>BMC Neuroscience</i> , 2012, 13, .	1.9	1
45	Resources for Modeling in Computational Neuroscience. <i>Springer Series in Computational Neuroscience</i> , 2018, , 807-830.	0.3	1
46	A stage-structured population model for activity-dependent dendritic spines. <i>Journal of Biological Dynamics</i> , 2021, 15, S62-S80.	1.7	1
47	A multiscale continuum model of the vertebrate outer retina: The temporal dynamics of background-induced flicker enhancement. <i>Journal of Theoretical Biology</i> , 2021, 525, 110763.	1.7	1
48	Modeling ion channels from the cricket cercal sensory system. <i>Neurocomputing</i> , 2004, 58-60, 409-415.	5.9	0
49	Two-compartment models of spasticity in spinal motor neurons following spinal cord injury. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	0
50	Modeling structural plasticity in dendrites with multiple spine types. <i>BMC Neuroscience</i> , 2008, 9, P104.	1.9	0
51	Modeling the GABA and ephaptic feedback mechanisms in cat outer retina. <i>BMC Neuroscience</i> , 2008, 9, .	1.9	0
52	Differential contribution of A-type potassium currents in shaping neuronal responses to synaptic input. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	0
53	A continuum approach to model neurites/dendrites with emerging subtrees. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
54	Neuronal network models for sensory discrimination. , 2016, 2016, 1066-1073.		0