Benjamin D Evans

List of Publications by Year
in descending order

20 papers	415 citations	932766 10 h-index	996533 15 g-index
26 all docs	26 docs citations	26 times ranked	614 citing authors

#	Article	IF	Citations
1	Assessment of a Noninvasive Exhaled Breath Test for the Diagnosis of Oesophagogastric Cancer. JAMA Oncology, 2018, 4, 970.	3.4	82
2	Chaste: Cancer, Heart and Soft Tissue Environment. Journal of Open Source Software, 2020, 5, 1848.	2.0	58
3	Vangl2 promotes the formation of long cytonemes to enable distant Wnt/Î²-catenin signaling. Nature Communications, 2021, 12, 2058.	5.8	42
4	Ten simple rules for writing Dockerfiles for reproducible data science. PLoS Computational Biology, 2020, 16, e1008316.	1.5	42
5	Supervised learning for infection risk inference using pathology data. BMC Medical Informatics and Decision Making, 2017, 17, 168.	1.5	31
6	Hiding a plane with a pixel: examining shape-bias in CNNs and the benefit of building in biological constraints. Vision Research, 2020, 174, 57-68.	0.7	30
7	Optogenetics in Silicon: A Neural Processor for Predicting Optically Active Neural Networks. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 15-27.	2.7	22
8	PyRhO: A Multiscale Optogenetics Simulation Platform. Frontiers in Neuroinformatics, 2016, 10, 8.	1.3	21
9	Transformation-invariant visual representations in self-organizing spiking neural networks. Frontiers in Computational Neuroscience, 2012, 6, 46.	1.2	17
10	Biological convolutions improve DNN robustness to noise and generalisation. Neural Networks, 2022, 148, 96-110.	3.3	14
11	How Lateral Connections and Spiking Dynamics May Separate Multiple Objects Moving Together. PLoS ONE, 2013, 8, e69952.	1.1	7
12	Computational modeling of the neural representation of object shape in the primate ventral visual system. Frontiers in Computational Neuroscience, 2015, 9, 100.	1.2	6
13	Estimating disease prevalence in large datasets using genetic risk scores. Nature Communications, 2021, 12, 6441.	5.8	6
14	A Self-Organizing Model of the Visual Development of Hand-Centred Representations. PLoS ONE, 2013, 8, e66272.	1.1	5
15	Live demonstration: A low-power neuromorphic system for retinal implants and sensory substitution. , 2015, , .		3
16	A low-power neuromorphic system for retinal implants and sensory substitution. , 2016, , .		3
17	Adding biological constraints to CNNs makes image classification more human-like and robust. , 2019, , .		2
18	STDP in lateral connections creates category-based perceptual cycles for invariance learning with multiple stimuli. Biological Cybernetics, 2015, 109, 215-239.	0.6	1

#	Article	IF	Citations
19	PyRhO: a virtual optogenetics laboratory. BMC Neuroscience, 2015, 16, .	0.8	0
20	From bytes to insights with modelling as a service a new paradigm for computational modelling illustrated with PyRhO. , 2016, , .		0