Benjamin D Evans

List of Publications by Year
in descending order

20	415	933264 10	996849 15
papers	citations	h-index	g-index

26	26	26	614
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological convolutions improve DNN robustness to noise and generalisation. Neural Networks, 2022, 148, 96-110.	3.3	14
2	Vangl2 promotes the formation of long cytonemes to enable distant Wnt/Î²-catenin signaling. Nature Communications, 2021, 12, 2058.	5.8	42
3	Estimating disease prevalence in large datasets using genetic risk scores. Nature Communications, 2021, 12, 6441.	5.8	6
4	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
5	Ten simple rules for writing Dockerfiles for reproducible data science. PLoS Computational Biology, 2020, 16, e1008316.	1.5	42
6	Chaste: Cancer, Heart and Soft Tissue Environment. Journal of Open Source Software, 2020, 5, 1848.	2.0	58
7	Adding biological constraints to CNNs makes image classification more human-like and robust. , 2019, , .		2
8	Assessment of a Noninvasive Exhaled Breath Test for the Diagnosis of Oesophagogastric Cancer. JAMA Oncology, 2018, 4, 970.	3.4	82
9	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
10	Supervised learning for infection risk inference using pathology data. BMC Medical Informatics and Decision Making, 2017, 17, 168.	1.5	31
11	PyRhO: A Multiscale Optogenetics Simulation Platform. Frontiers in Neuroinformatics, 2016, 10, 8.	1.3	21
12	A low-power neuromorphic system for retinal implants and sensory substitution. , 2016, , .		3
13	From bytes to insights with modelling as a service a new paradigm for computational modelling illustrated with PyRhO. , 2016, , .		0
14	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
15	PyRhO: a virtual optogenetics laboratory. BMC Neuroscience, 2015, 16, .	0.8	0
16	Live demonstration: A low-power neuromorphic system for retinal implants and sensory substitution. , 2015, , .		3
17	STDP in lateral connections creates category-based perceptual cycles for invariance learning with multiple stimuli. Biological Cybernetics, 2015, 109, 215-239.	0.6	1
18	A Self-Organizing Model of the Visual Development of Hand-Centred Representations. PLoS ONE, 2013, 8, e66272.	1.1	5

#	Article	IF	Citations
19	How Lateral Connections and Spiking Dynamics May Separate Multiple Objects Moving Together. PLoS ONE, 2013, 8, e69952.	1.1	7
20	Transformation-invariant visual representations in self-organizing spiking neural networks. Frontiers in Computational Neuroscience, 2012, 6, 46.	1.2	17