Yaroslav O Halchenko

List of Publications by Year
in descending order

50	24,199	218381 26	223531 46
papers	citations	h-index	g-index

70	70	70	34459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SciPy 1.0: fundamental algorithms for scientific computing in Python. Nature Methods, 2020, 17, 261-272.	9.0	17,539
2	Nipype: A Flexible, Lightweight and Extensible Neuroimaging Data Processing Framework in Python. Frontiers in Neuroinformatics, 2011, 5, 13.	1.3	1,383
3	The brain imaging data structure, a format for organizing and describing outputs of neuroimaging experiments. Scientific Data, 2016, 3, 160044.	2.4	1,038
4	A Common, High-Dimensional Model of the Representational Space in Human Ventral Temporal Cortex. Neuron, 2011, 72, 404-416.	3.8	547
5	PyMVPA: a Python Toolbox for Multivariate Pattern Analysis of fMRI Data. Neuroinformatics, 2009, 7, 37-53.	1.5	435
6	The Representation of Biological Classes in the Human Brain. Journal of Neuroscience, 2012, 32, 2608-2618.	1.7	332
7	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	13.7	316
8	Six problems for causal inference from fMRI. NeuroImage, 2010, 49, 1545-1558.	2.1	274
9	Decoding the Large-Scale Structure of Brain Function by Classifying Mental States Across Individuals. Psychological Science, 2009, 20, 1364-1372.	1.8	236
10	Data sharing in neuroimaging research. Frontiers in Neuroinformatics, 2012, 6, 9.	1.3	219
11	A Model of Representational Spaces in Human Cortex. Cerebral Cortex, 2016, 26, 2919-2934.	1.6	173
12	The OpenNeuro resource for sharing of neuroscience data. ELife, 2021, 10, .	2.8	137
13	The Animacy Continuum in the Human Ventral Vision Pathway. Journal of Cognitive Neuroscience, 2015, 27, 665-678.	1.1	134
14	Brain Reading Using Full Brain Support Vector Machines for Object Recognition: There Is No â€œFaceâ€• Identification Area. Neural Computation, 2008, 20, 486-503.	1.3	98
15	PyMVPA: a unifying approach to the analysis of neuroscientific data. Frontiers in Neuroinformatics, 2009, 3, 3.	1.3	98
16	Open is Not Enough. Let's Take the Next Step: An Integrated, Community-Driven Computing Platform for Neuroscience. Frontiers in Neuroinformatics, 2012, 6, 22.	1.3	97
17	Prioritized Detection of Personally Familiar Faces. PLoS ONE, 2013, 8, e66620.	1.1	88
18	Everything Matters: The ReproNim Perspective on Reproducible Neuroimaging. Frontiers in Neuroinformatics, 2019, 13, 1.	1.3	88

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19	Toward standard practices for sharing computer code and programs in neuroscience. Nature Neuroscience, 2017, 20, 770-773.	7.1	87
20	Attention Selectively Reshapes the Geometry of Distributed Semantic Representation. Cerebral Cortex, 2017, 27, 4277-4291.	1.6	85
21	Analysis of task-based functional MRI data preprocessed with fMRIPrep. Nature Protocols, 2020, 15, 2186-2202.	5.5	78
22	The neural representation of personally familiar and unfamiliar faces in the distributed system for face perception. Scientific Reports, 2017, 7, 12237.	1.6	75
23	DataLad: distributed system for joint management of code, data, and their relationship. Journal of Open Source Software, 2021, 6, 3262.	2.0	71
24	The â€œNarrativesâ€•fMRI dataset for evaluating models of naturalistic language comprehension. Scientific Data, 2021, 8, 250.	2.4	50
25	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. Neuron, 2016, 92, 622-627.	3.8	46
26	Neuroscience Runs on GNU/Linux. Frontiers in Neuroinformatics, 2011, 5, 8.	1.3	43
27	How the Human Brain Represents Perceived Dangerousness or â€œPredacityâ€•of Animals. Journal of Neuroscience, 2016, 36, 5373-5384.	1.7	43
28	PyBIDS: Python tools for BIDS datasets. Journal of Open Source Software, 2019, 4, 1294.	2.0	32
29	Processing of invisible social cues. Consciousness and Cognition, 2013, 22, 765-770.	0.8	30
30	The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data. Human Brain Mapping, 2021, 42, 1945-1951.	1.9	27
31	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. Neuron, 2021, 109, 1769-1775.	3.8	27
32	Pattern classification precedes region-average hemodynamic response in early visual cortex. NeuroImage, 2013, 78, 249-260.	2.1	21
33	Bottom-up and top-down brain functional connectivity underlying comprehension of everyday visual action. Brain Structure and Function, 2007, 212, 231-244.	1.2	17
34	In defense of decentralized research data management. Neuroforum, 2021, .	0.2	14
35	A very simple, re-executable neuroimaging publication. F1000Research, 2017, 6, 124.	0.8	14
36	Statistical learning analysis in neuroscience: aiming for transparency. Frontiers in Neuroscience, 2010, 4, 38.	1.4	13

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37	Neural Responses to Naturalistic Clips of Behaving Animals in Two Different Task Contexts. Frontiers in Neuroscience, 2018, 12, 316.	1.4	13
38	A very simple, re-executable neuroimaging publication. F1000Research, 2017, 6, 124.	0.8	12
39	Microscopy-BIDS: An Extension to the Brain Imaging Data Structure for Microscopy Data. Frontiers in Neuroscience, 2022, 16, 871228.	1.4	11
40	multimatch-gaze: The MultiMatch algorithm for gaze path comparison in Python. Journal of Open Source Software, 2019, 4, 1525.	2.0	9
41	Four aspects to make science open â€œby designâ€•and not as an after-thought. GigaScience, 2015, 4, 31.	3.3	8
42	Dense mode clustering in brain maps. Magnetic Resonance Imaging, 2007, 25, 1249-1262.	1.0	6
43	Aberrant levels of cortical myelin distinguish individuals with depressive disorders from healthy controls. NeuroImage: Clinical, 2021, 32, 102790.	1.4	6
44	A new virtue of phantom MRI data: explaining variance in human participant data. F1000Research, 2020, 9, 1131.	0.8	6
45	Cross-modal searchlight classification: methodological challenges and recommended solutions. , 2016, , .		4
46	Protocol for a machine learning algorithm predicting depressive disorders using the T1w/T2w ratio. MethodsX, 2021, 8, 101595.	0.7	2
47	A communication hub for a decentralized collaboration on studying real-life cognition. F1000Research, 2015, 4, 62.	0.8	1
48	‹title›Method for image coordinate definition on extended laser paths‹/title›. , 2000, 4148, 19.		0
49	27. Variability of the Neuroimaging Results Across OS, and How to Avoid it. Biological Psychiatry, 2018, 83, S11.	0.7	0
50	IQ in Typical Development: A Mega-Analysis of the Historical Literature. Biological Psychiatry, 2021, 89, S150.	0.7	0