

# Yaroslav O Halchenko

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57  
papers

10,231  
citations

24  
h-index

70  
g-index

70  
ext. papers

17,211  
ext. citations

7.1  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
57	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , <b>2020</b> , 17, 261-272	21.6	6244
56	Nipype: a flexible, lightweight and extensible neuroimaging data processing framework in python. <i>Frontiers in Neuroinformatics</i> , <b>2011</b> , 5, 13	3.9	737
55	The brain imaging data structure, a format for organizing and describing outputs of neuroimaging experiments. <i>Scientific Data</i> , <b>2016</b> , 3, 160044	8.2	510
54	A common, high-dimensional model of the representational space in human ventral temporal cortex. <i>Neuron</i> , <b>2011</b> , 72, 404-16	13.9	381
53	PyMVPA: A python toolbox for multivariate pattern analysis of fMRI data. <i>Neuroinformatics</i> , <b>2009</b> , 7, 37-53	3.2	322
52	The representation of biological classes in the human brain. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 2608-18	6.6	272
51	Six problems for causal inference from fMRI. <i>NeuroImage</i> , <b>2010</b> , 49, 1545-58	7.9	220
50	Decoding the large-scale structure of brain function by classifying mental States across individuals. <i>Psychological Science</i> , <b>2009</b> , 20, 1364-72	7.9	206
49	Data sharing in neuroimaging research. <i>Frontiers in Neuroinformatics</i> , <b>2012</b> , 6, 9	3.9	171
48	A Model of Representational Spaces in Human Cortex. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 2919-2934	5.1	119
47	The animacy continuum in the human ventral vision pathway. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 665-78	3.1	93
46	PyMVPA: A Unifying Approach to the Analysis of Neuroscientific Data. <i>Frontiers in Neuroinformatics</i> , <b>2009</b> , 3, 3	3.9	89
45	Brain reading using full brain support vector machines for object recognition: there is no "face" identification area. <i>Neural Computation</i> , <b>2008</b> , 20, 486-503	2.9	84
44	Open is Not Enough. Let's Take the Next Step: An Integrated, Community-Driven Computing Platform for Neuroscience. <i>Frontiers in Neuroinformatics</i> , <b>2012</b> , 6, 22	3.9	77
43	Prioritized Detection of Personally Familiar Faces. <i>PLoS ONE</i> , <b>2013</b> , 8, e66620	3.7	63
42	Attention Selectively Reshapes the Geometry of Distributed Semantic Representation. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 4277-4291	5.1	60
41	Toward standard practices for sharing computer code and programs in neuroscience. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 770-773	25.5	56

40	The neural representation of personally familiar and unfamiliar faces in the distributed system for face perception. <i>Scientific Reports</i> , <b>2017</b> , 7, 12237	4.9	51
39	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , <b>2021</b> , 598, 86-102	50.4	44
38	Everything Matters: The ReproNim Perspective on Reproducible Neuroimaging. <i>Frontiers in Neuroinformatics</i> , <b>2019</b> , 13, 1	3.9	42
37	How the Human Brain Represents Perceived Dangerousness or "Predacity" of Animals. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 5373-84	6.6	36
36	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. <i>Neuron</i> , <b>2016</b> , 92, 622-627	13.9	34
35	Neuroscience Runs on GNU/Linux. <i>Frontiers in Neuroinformatics</i> , <b>2011</b> , 5, 8	3.9	33
34	Processing of invisible social cues. <i>Consciousness and Cognition</i> , <b>2013</b> , 22, 765-70	2.6	25
33	Analysis of task-based functional MRI data preprocessed with fMRIPrep. <i>Nature Protocols</i> , <b>2020</b> , 15, 2186-2202	23	23
32	Pattern classification precedes region-average hemodynamic response in early visual cortex. <i>NeuroImage</i> , <b>2013</b> , 78, 249-60	7.9	17
31	The OpenNeuro resource for sharing of neuroscience data. <i>ELife</i> , <b>2021</b> , 10,	8.9	17
30	DataLad: distributed system for joint management of code, data, and their relationship. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 3262	5.2	15
29	Bottom-up and top-down brain functional connectivity underlying comprehension of everyday visual action. <i>Brain Structure and Function</i> , <b>2007</b> , 212, 231-44	4	14
28	PyBIDS: Python tools for BIDS datasets. <i>Journal of Open Source Software</i> , <b>2019</b> , 4,	5.2	13
27	Statistical learning analysis in neuroscience: aiming for transparency. <i>Frontiers in Neuroscience</i> , <b>2010</b> , 4, 38	5.1	12
26	A multimodal cell census and atlas of the mammalian primary motor cortex		12
25	Multimodal Integration. <i>Signal Processing and Communications</i> , <b>2005</b> , 223-265		11
24	A very simple, re-executable neuroimaging publication. <i>F1000Research</i> , <b>2017</b> , 6, 124	3.6	11
23	A very simple, re-executable neuroimaging publication. <i>F1000Research</i> , <b>2017</b> , 6, 124	3.6	10

22	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , <b>2021</b> , 109, 1769-1775	13.9	10
21	OpenNeuro: An open resource for sharing of neuroimaging data		8
20	Neural Responses to Naturalistic Clips of Behaving Animals in Two Different Task Contexts. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 316	5.1	7
19	Narratives: fMRI data for evaluating models of naturalistic language comprehension		7
18	Four aspects to make science open "by design" and not as an after-thought. <i>GigaScience</i> , <b>2015</b> , 4, 31	7.6	6
17	Dense mode clustering in brain maps. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 1249-62	3.3	5
16	The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data		5
15	The Brain Imaging Data Structure: a standard for organizing and describing outputs of neuroimaging experiments		5
14	Analysis of task-based functional MRI data preprocessed with fMRIPrep		5
13	In defense of decentralized research data management. <i>Neuroforum</i> , <b>2021</b> ,	0.7	5
12	multimatch-gaze: The MultiMatch algorithm for gaze path comparison in Python. <i>Journal of Open Source Software</i> , <b>2019</b> , 4, 1525	5.2	4
11	Towards standard practices for sharing computer code and programs in neuroscience		4
10	TemplateFlow: FAIR-sharing of multi-scale, multi-species brain models		4
9	A new virtue of phantom MRI data: explaining variance in human participant data. <i>F1000Research</i> , <b>2020</b> , 9, 1131	3.6	2
8	Cross-modal searchlight classification: methodological challenges and recommended solutions <b>2016</b> ,		2
7	TemplateFlow: a community archive of imaging templates and atlases for improved consistency in neuroimaging		
6	The "Narratives" fMRI dataset for evaluating models of naturalistic language comprehension. <i>Scientific Data</i> , <b>2021</b> , 8, 250	8.2	2
5	Aberrant levels of cortical myelin distinguish individuals with depressive disorders from healthy controls. <i>NeuroImage: Clinical</i> , <b>2021</b> , 32, 102790	5.3	2

4	Protocol for a machine learning algorithm predicting depressive disorders using the T1w/T2w ratio.. <i>MethodsX</i> , <b>2021</b> , 8, 101595	1.9	1
3	Attention selectively reshapes the geometry of distributed semantic representation		1
2	A communication hub for a decentralized collaboration on studying real-life cognition. <i>F1000Research</i> , <b>2015</b> , 4, 62	3.6	1
1	Microscopy-BIDS: An Extension to the Brain Imaging Data Structure for Microscopy Data.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 871228	5.1	0