

Michael J Hawrylycz

List of Publications by Year in descending order

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71
papers

29,795
citations

57631

44
h-index

79541

73
g-index

100
all docs

100
docs citations

100
times ranked

38238
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular resolution anatomical and molecular atlases for prenatal human brains. <i>Journal of Comparative Neurology</i> , 2022, 530, 6-503.	0.9	14
2	Is Neuroscience FAIR? A Call for Collaborative Standardisation of Neuroscience Data. <i>Neuroinformatics</i> , 2022, 20, 507-512.	1.5	23
3	Petabyte-Scale Multi-Morphometry of Single Neurons for Whole Brains. <i>Neuroinformatics</i> , 2022, 20, 525-536.	1.5	14
4	Cross-modal coherent registration of whole mouse brains. <i>Nature Methods</i> , 2022, 19, 111-118.	9.0	36
5	Consistent cross-modal identification of cortical neurons with coupled autoencoders. <i>Nature Computational Science</i> , 2021, 1, 120-127.	3.8	29
6	A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. <i>Cell</i> , 2021, 184, 3222-3241.e26.	13.5	479
7	Single-cell and single-nucleus RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates, and humans. <i>ELife</i> , 2021, 10, .	2.8	41
8	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 103-110.	13.7	166
9	Morphological diversity of single neurons in molecularly defined cell types. <i>Nature</i> , 2021, 598, 174-181.	13.7	180
10	Human neocortical expansion involves glutamatergic neuron diversification. <i>Nature</i> , 2021, 598, 151-158.	13.7	160
11	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	13.7	361
12	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
13	Cellular anatomy of the mouse primary motor cortex. <i>Nature</i> , 2021, 598, 159-166.	13.7	117
14	Transcriptional network orchestrating regional patterning of cortical progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
15	New light on cortical neuropeptides and synaptic network plasticity. <i>Current Opinion in Neurobiology</i> , 2020, 63, 176-188.	2.0	26
16	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	7.1	183
17	Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. <i>Cell</i> , 2020, 183, 935-953.e19.	13.5	290
18	The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas. <i>Cell</i> , 2020, 181, 936-953.e20.	13.5	597

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19	Common cell type nomenclature for the mammalian brain. <i>ELife</i> , 2020, 9, .	2.8	56
20	TeraVR empowers precise reconstruction of complete 3-D neuronal morphology in the whole brain. <i>Nature Communications</i> , 2019, 10, 3474.	5.8	64
21	Conserved cell types with divergent features in human versus mouse cortex. <i>Nature</i> , 2019, 573, 61-68.	13.7	1,198
22	Classification of electrophysiological and morphological neuron types in the mouse visual cortex. <i>Nature Neuroscience</i> , 2019, 22, 1182-1195.	7.1	333
23	Single-cell transcriptomic evidence for dense intracortical neuropeptide networks. <i>ELife</i> , 2019, 8, .	2.8	98
24	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. <i>Science</i> , 2018, 362, .	6.0	516
25	Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018, 563, 72-78.	13.7	1,323
26	An anatomic transcriptional atlas of human glioblastoma. <i>Science</i> , 2018, 360, 660-663.	6.0	384
27	Automatic tracing of ultra-volumes of neuronal images. <i>Nature Methods</i> , 2017, 14, 332-333.	9.0	75
28	Transcriptomic Perspectives on Neocortical Structure, Development, Evolution, and Disease. <i>Annual Review of Neuroscience</i> , 2017, 40, 629-652.	5.0	85
29	A comprehensive transcriptional map of primate brain development. <i>Nature</i> , 2016, 535, 367-375.	13.7	341
30	Reconstructing the brain: from image stacks to neuron synthesis. <i>Brain Informatics</i> , 2016, 3, 205-209.	1.8	9
31	Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. <i>Nature Neuroscience</i> , 2016, 19, 335-346.	7.1	1,522
32	Cell-type-specific neuroanatomy of cliques of autism-related genes in the mouse brain. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 55.	1.2	3
33	BlastNeuron for Automated Comparison, Retrieval and Clustering of 3D Neuron Morphologies. <i>Neuroinformatics</i> , 2015, 13, 487-499.	1.5	55
34	Correlated gene expression supports synchronous activity in brain networks. <i>Science</i> , 2015, 348, 1241-1244.	6.0	532
35	Canonical genetic signatures of the adult human brain. <i>Nature Neuroscience</i> , 2015, 18, 1832-1844.	7.1	503
36	Neuroinformatics of the Allen Mouse Brain Connectivity Atlas. <i>Methods</i> , 2015, 73, 4-17.	1.9	176

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37	Exploration and visualization of connectivity in the adult mouse brain. <i>Methods</i> , 2015, 73, 90-97.	1.9	13
38	Spatial mapping of multi-modal data in neuroscience. <i>Methods</i> , 2015, 73, 1-3.	1.9	0
39	Mapping Social Behavior-Induced Brain Activation at Cellular Resolution in the Mouse. <i>Cell Reports</i> , 2015, 10, 292-305.	2.9	270
40	BigNeuron: Large-Scale 3D Neuron Reconstruction from Optical Microscopy Images. <i>Neuron</i> , 2015, 87, 252-256.	3.8	202
41	Visualizing the spatial gene expression organization in the brain through non-linear similarity embeddings. <i>Methods</i> , 2015, 73, 79-89.	1.9	54
42	A mesoscale connectome of the mouse brain. <i>Nature</i> , 2014, 508, 207-214.	13.7	2,143
43	The Allen Brain Atlas. , 2014, , 1111-1126.		18
44	Transcriptional landscape of the prenatal human brain. <i>Nature</i> , 2014, 508, 199-206.	13.7	1,147
45	Cell-type-based model explaining coexpression patterns of genes in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5397-5402.	3.3	66
46	Virtual finger boosts three-dimensional imaging and microsurgery as well as terabyte volume image visualization and analysis. <i>Nature Communications</i> , 2014, 5, 4342.	5.8	109
47	A High-Resolution Spatiotemporal Atlas of Gene Expression of the Developing Mouse Brain. <i>Neuron</i> , 2014, 83, 309-323.	3.8	246
48	Computational neuroanatomy and co-expression of genes in the adult mouse brain, analysis tools for the Allen Brain Atlas. <i>Quantitative Biology</i> , 2013, 1, 91-100.	0.3	9
49	Transcriptional Architecture of the Primate Neocortex. <i>Neuron</i> , 2012, 73, 1083-1099.	3.8	234
50	Large-Scale Cellular-Resolution Gene Profiling in Human Neocortex Reveals Species-Specific Molecular Signatures. <i>Cell</i> , 2012, 149, 483-496.	13.5	342
51	An anatomically comprehensive atlas of the adult human brain transcriptome. <i>Nature</i> , 2012, 489, 391-399.	13.7	2,321
52	Large-Scale Neuroinformatics for In Situ Hybridization Data in the Mouse Brain. <i>International Review of Neurobiology</i> , 2012, 104, 159-182.	0.9	9
53	Multi-scale correlation structure of gene expression in the brain. <i>Neural Networks</i> , 2011, 24, 933-942.	3.3	45
54	Digital Atlasing and Standardization in the Mouse Brain. <i>PLoS Computational Biology</i> , 2011, 7, e1001065.	1.5	109

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55	Areal and laminar differentiation in the mouse neocortex using large scale gene expression data. <i>Methods</i> , 2010, 50, 113-121.	1.9	38
56	A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. <i>Nature Neuroscience</i> , 2010, 13, 133-140.	7.1	5,650
57	Molecular and anatomical signatures of sleep deprivation in the mouse brain. <i>Frontiers in Neuroscience</i> , 2010, 4, 165.	1.4	90
58	Clustering of spatial gene expression patterns in the mouse brain and comparison with classical neuroanatomy. <i>Methods</i> , 2010, 50, 105-112.	1.9	70
59	Surface-based mapping of gene expression and probabilistic expression maps in the mouse cortex. <i>Methods</i> , 2010, 50, 55-62.	1.9	23
60	The INCF Digital Atlasing Program: Report on Digital Atlasing Standards in the Rodent Brain. <i>Nature Precedings</i> , 2009, , .	0.1	7
61	A Proposal for a Coordinated Effort for the Determination of Brainwide Neuroanatomical Connectivity in Model Organisms at a Mesoscopic Scale. <i>PLoS Computational Biology</i> , 2009, 5, e1000334.	1.5	242
62	An anatomic gene expression atlas of the adult mouse brain. <i>Nature Neuroscience</i> , 2009, 12, 356-362.	7.1	264
63	Exploration and visualization of gene expression with neuroanatomy in the adult mouse brain. <i>BMC Bioinformatics</i> , 2008, 9, 153.	1.2	87
64	Quantitative methods for genome-scale analysis of in situ hybridization and correlation with microarray data. <i>Genome Biology</i> , 2008, 9, R23.	13.9	29
65	Genomic Anatomy of the Hippocampus. <i>Neuron</i> , 2008, 60, 1010-1021.	3.8	337
66	Neuroinformatics for Genome-Wide 3-D Gene Expression Mapping in the Mouse Brain. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007, 4, 382-393.	1.9	109
67	Workshop report: 1st INCF Workshop on Mouse and Rat Brain Digital Atlasing Systems. <i>Nature Precedings</i> , 2007, , .	0.1	1
68	Workshop report: 1st INCF Workshop on Mouse and Rat Brain Digital Atlasing Systems. <i>Nature Precedings</i> , 2007, , .	0.1	1
69	Genome-wide atlas of gene expression in the adult mouse brain. <i>Nature</i> , 2007, 445, 168-176.	13.7	4,863
70	NeuroBlast: a 3D spatial homology search tool for gene expression. <i>BMC Neuroscience</i> , 2007, 8, .	0.8	11
71	The Allen Brain Atlas: Delivering Neuroscience to the Web on a Genome Wide Scale. , 2007, , 17-26.		8