

Tomasz J Nowakowski

List of Publications by Year in Descending Order

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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.

66

papers

4,818

citations

24

h-index

69

g-index

77

ext. papers

7,073

ext. citations

21.5

avg, IF

5.61

L-index

#	Paper	IF	Citations
66	A single-cell atlas of the normal and malformed human brain vasculature.. <i>Science</i> , 2022 , 375, eabi7377	33.3	6
65	Nests of dividing neuroblasts sustain interneuron production for the developing human brain.. <i>Science</i> , 2022 , 375, eabk2346	33.3	1
64	DynaMorph: self-supervised learning of morphodynamic states of live cells.. <i>Molecular Biology of the Cell</i> , 2022 , mbcE21110561	3.5	0
63	The development and evolution of inhibitory neurons in primate cerebrum.. <i>Nature</i> , 2022 ,	50.4	1
62	Microglial GPR56 is the molecular target of maternal immune activation-induced parvalbumin-positive interneuron deficits.. <i>Science Advances</i> , 2022 , 8, eabm2545	14.3	0
61	Fate mapping of neural stem cell niches reveals distinct origins of human cortical astrocytes.. <i>Science</i> , 2022 , eabm5224	33.3	2
60	Individual human cortical progenitors can produce excitatory and inhibitory neurons.. <i>Nature</i> , 2021 ,	50.4	5
59	Picroscope: low-cost system for simultaneous longitudinal biological imaging. <i>Communications Biology</i> , 2021 , 4, 1261	6.7	2
58	Endovascular Biopsy of Vertebrobasilar Aneurysm in Patient With Polyarteritis Nodosa. <i>Frontiers in Neurology</i> , 2021 , 12, 697105	4.1	1
57	Single-cell epigenomics reveals mechanisms of human cortical development. <i>Nature</i> , 2021 , 598, 205-213	50.4	13
56	An atlas of cortical arealization identifies dynamic molecular signatures. <i>Nature</i> , 2021 , 598, 200-204	50.4	14
55	Single-cell atlas of early human brain development highlights heterogeneity of human neuroepithelial cells and early radial glia. <i>Nature Neuroscience</i> , 2021 , 24, 584-594	25.5	43
54	Rare deleterious mutations of HNRNP genes result in shared neurodevelopmental disorders. <i>Genome Medicine</i> , 2021 , 13, 63	14.4	9
53	The CHD8/CHD7/Kismet family links blood-brain barrier glia and serotonin to ASD-associated sleep defects. <i>Science Advances</i> , 2021 , 7,	14.3	6
52	UCSC Cell Browser: Visualize Your Single-Cell Data. <i>Bioinformatics</i> , 2021 ,	7.2	17
51	Parallel in vivo analysis of large-effect autism genes implicates cortical neurogenesis and estrogen in risk and resilience. <i>Neuron</i> , 2021 , 109, 788-804.e8	13.9	11
50	Distinct nuclear compartment-associated genome architecture in the developing mammalian brain. <i>Nature Neuroscience</i> , 2021 , 24, 1235-1242	25.5	13

49	Human microglia states are conserved across experimental models and regulate neural stem cell responses in chimeric organoids. <i>Cell Stem Cell</i> , 2021 , 28, 2153-2166.e6	18	18
48	Single-cell delineation of lineage and genetic identity in the mouse brain.. <i>Nature</i> , 2021 ,	50.4	5
47	A Chromatin Accessibility Atlas of the Developing Human Telencephalon. <i>Cell</i> , 2020 , 182, 754-769.e18	56.2	21
46	Evolutionary Expansion of Human Cerebellar Germinal Zones. <i>Trends in Neurosciences</i> , 2020 , 43, 75-77	13.3	4
45	Cell stress in cortical organoids impairs molecular subtype specification. <i>Nature</i> , 2020 , 578, 142-148	50.4	173
44	Revealing architectural order with quantitative label-free imaging and deep learning. <i>ELife</i> , 2020 , 9,	8.9	21
43	Medulloblastoma Arises from the Persistence of a Rare and Transient Sox2 Granule Neuron Precursor. <i>Cell Reports</i> , 2020 , 31, 107511	10.6	10
42	The Expanding Cell Diversity of the Brain Vasculature. <i>Frontiers in Physiology</i> , 2020 , 11, 600767	4.6	10
41	Are Organoids Ready for Prime Time?. <i>Cell Stem Cell</i> , 2020 , 27, 361-365	18	9
40	Development and Arealization of the Cerebral Cortex. <i>Neuron</i> , 2019 , 103, 980-1004	13.9	97
39	Human brain development through the lens of cerebral organoid models. <i>Brain Research</i> , 2019 , 1725, 146470	3.7	12
38	Mafb and c-Maf Have Prenatal Compensatory and Postnatal Antagonistic Roles in Cortical Interneuron Fate and Function. <i>Cell Reports</i> , 2019 , 26, 1157-1173.e5	10.6	21
37	Neuroserpin expression during human brain development and in adult brain revealed by immunohistochemistry and single cell RNA sequencing. <i>Journal of Anatomy</i> , 2019 , 235, 543-554	2.9	17
36	Automated four-dimensional long term imaging enables single cell tracking within organotypic brain slices to study neurodevelopment and degeneration. <i>Communications Biology</i> , 2019 , 2, 155	6.7	14
35	Establishing Cerebral Organoids as Models of Human-Specific Brain Evolution. <i>Cell</i> , 2019 , 176, 743-756.e37	47.2	217
34	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. <i>Neuron</i> , 2019 , 102, 143-158.e7	13.9	36
33	Disruptive mutations in TANC2 define a neurodevelopmental syndrome associated with psychiatric disorders. <i>Nature Communications</i> , 2019 , 10, 4679	17.4	21
32	Evolution of New miRNAs and Cerebro-Cortical Development. <i>Annual Review of Neuroscience</i> , 2018 , 41, 119-137	17	15

31	An analytical framework for whole-genome sequence association studies and its implications for autism spectrum disorder. <i>Nature Genetics</i> , 2018 , 50, 727-736	36.3	156
30	The Psychiatric Cell Map Initiative: A Convergent Systems Biological Approach to Illuminating Key Molecular Pathways in Neuropsychiatric Disorders. <i>Cell</i> , 2018 , 174, 505-520	56.2	69
29	Regulation of cell-type-specific transcriptomes by microRNA networks during human brain development. <i>Nature Neuroscience</i> , 2018 , 21, 1784-1792	25.5	72
28	Identification of cell types in a mouse brain single-cell atlas using low sampling coverage. <i>BMC Biology</i> , 2018 , 16, 113	7.3	10
27	Transcriptional fates of human-specific segmental duplications in brain. <i>Genome Research</i> , 2018 , 28, 1566-1576	17.35	35
26	Human-Specific NOTCH2NL Genes Affect Notch Signaling and Cortical Neurogenesis. <i>Cell</i> , 2018 , 173, 1356-1369.e22	56.2	217
25	Human iPSC-Derived Cerebral Organoids Model Cellular Features of Lissencephaly and Reveal Prolonged Mitosis of Outer Radial Glia. <i>Cell Stem Cell</i> , 2017 , 20, 435-449.e4	18	302
24	The impact of microRNAs on transcriptional heterogeneity and gene co-expression across single embryonic stem cells. <i>Nature Communications</i> , 2017 , 8, 14126	17.4	22
23	Spatiotemporal gene expression trajectories reveal developmental hierarchies of the human cortex. <i>Science</i> , 2017 , 358, 1318-1323	33.3	396
22	Transformation of the Radial Glia Scaffold Demarcates Two Stages of Human Cerebral Cortex Development. <i>Neuron</i> , 2016 , 91, 1219-1227	13.9	157
21	A Primate lncRNA Mediates Notch Signaling during Neuronal Development by Sequestering miRNA. <i>Neuron</i> , 2016 , 90, 1174-1188	13.9	95
20	Zika virus cell tropism in the developing human brain and inhibition by azithromycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14408-14413	11.5	327
19	Single-cell sequencing maps gene expression to mutational phylogenies in PDGF- and EGF-driven gliomas. <i>Molecular Systems Biology</i> , 2016 , 12, 889	12.2	67
18	Expression Analysis Highlights AXL as a Candidate Zika Virus Entry Receptor in Neural Stem Cells. <i>Cell Stem Cell</i> , 2016 , 18, 591-6	18	379
17	Single-cell analysis of long non-coding RNAs in the developing human neocortex. <i>Genome Biology</i> , 2016 , 17, 67	18.3	224
16	Molecular identity of human outer radial glia during cortical development. <i>Cell</i> , 2015 , 163, 55-67	56.2	464
15	Radial glia require PDGFR β -PDGFR β signalling in human but not mouse neocortex. <i>Nature</i> , 2014 , 515, 264-8	50.4	117
14	Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex. <i>Nature Biotechnology</i> , 2014 , 32, 1053-8	44.5	621

13	MicroRNA-92b regulates the development of intermediate cortical progenitors in embryonic mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7056-61	11.5	75
12	Loss of functional Dicer in mouse radial glia cell-autonomously prolongs cortical neurogenesis. <i>Developmental Biology</i> , 2013 , 382, 530-7	3.1	17
11	The expression and activity of Ectenin in the thalamus and its projections to the cerebral cortex in the mouse embryo. <i>BMC Neuroscience</i> , 2012 , 13, 20	3.2	8
10	Functional dicer is necessary for appropriate specification of radial glia during early development of mouse telencephalon. <i>PLoS ONE</i> , 2011 , 6, e23013	3.7	45
9	Novel lines of Pax6 ^{-/-} embryonic stem cells exhibit reduced neurogenic capacity without loss of viability. <i>BMC Neuroscience</i> , 2010 , 11, 26	3.2	9
8	Time-Multiplexed Laguerre-Gaussian holographic optical tweezers for biological applications. <i>Optics Express</i> , 2006 , 14, 3065-72	3.3	29
7	Revealing architectural order with quantitative label-free imaging and deep learning		1
6	A Chromatin Accessibility Atlas of the Developing Human Telencephalon		1
5	Single cell epigenomic atlas of the developing human brain and organoids		15
4	Single-Cell Atlas of Early Human Brain Development Highlights Heterogeneity of Human Neuroepithelial Cells and Early Radial Glia		3
3	Human microglia upregulate cytokine signatures and accelerate maturation of neural networks		7
2	DynaMorph: self-supervised learning of morphodynamic states of live cells		3
1	Integrated gene analyses of de novo mutations from 46,612 trios with autism and developmental disorders		2