Alex A Pollen

List of Publications by Year
in descending order

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37 papers	7,264 citations	293460 24 h-index	371746 37 g-index
42 all docs	42 docs citations	42 times ranked	12994 citing authors

#	Article	IF	Citations
1	Low cost cloud based remote microscopy for biological sciences. Internet of Things (Netherlands), 2022, 18, 100454.	4.9	12
2	Rethinking nomenclature for interspecies cell fusions. Nature Reviews Genetics, 2022, , .	7.7	3
3	The development and evolution of inhibitory neurons in primate cerebrum. Nature, 2022, 603, 871-877.	13.7	58
4	Tropism of SARS-CoV-2 for human cortical astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	77
5	UCSC Cell Browser: visualize your single-cell data. Bioinformatics, 2021, 37, 4578-4580.	1.8	105
6	Distinct nuclear compartment-associated genome architecture in the developing mammalian brain. Nature Neuroscience, 2021, 24, 1235-1242.	7.1	28
7	The genetic symphony underlying evolution of the brainâ€™s prefrontal cortex. Nature, 2021, 598, 417-418.	13.7	1
8	Picroscope: low-cost system for simultaneous longitudinal biological imaging. Communications Biology, 2021, 4, 1261.	2.0	23
9	Light-weight electrophysiology hardware and software platform for cloud-based neural recording experiments. Journal of Neural Engineering, 2021, 18, 066004.	1.8	7
10	Reverse engineering human brain evolution using organoid models. Brain Research, 2020, 1729, 146582.	1.1	25
11	Cell-type-specific 3D epigenomes in the developing human cortex. Nature, 2020, 587, 644-649.	13.7	110
12	Recurrent inversion toggling and great ape genome evolution. Nature Genetics, 2020, 52, 849-858.	9.4	40
13	Cell stress in cortical organoids impairs molecular subtype specification. Nature, 2020, 578, 142-148.	13.7	387
14	Paired involvement of human-specific Olduvai domains and NOTCH2NL genes in human brain evolution. Human Genetics, 2019, 138, 715-721.	1.8	27
15	Establishing Cerebral Organoids as Models of Human-Specific Brain Evolution. Cell, 2019, 176, 743-756.e17.	13.5	423
16	Multimodal Single-Cell Analysis Reveals Physiological Maturation in the Developing Human Neocortex. Neuron, 2019, 102, 143-158.e7.	3.8	61
17	Human-specific tandem repeat expansion and differential gene expression during primate evolution. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23243-23253.	3.3	82
18	Getting to the heart of cardiovascular evolution in humans. ELife, 2019, 8, .	2.8	2

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19	Regulation of cell-type-specific transcriptomes by microRNA networks during human brain development. Nature Neuroscience, 2018, 21, 1784-1792.	7.1	121
20	Physiological Models of Human Neuronal Development and Disease. Neuron, 2018, 100, 1025-1027.	3.8	2
21	Identification of cell types in a mouse brain single-cell atlas using low sampling coverage. BMC Biology, 2018, 16, 113.	1.7	15
22	Transcriptional fates of human-specific segmental duplications in brain. Genome Research, 2018, 28, 1566-1576.	2.4	54
23	Human-Specific NOTCH2NL Genes Affect Notch Signaling and Cortical Neurogenesis. Cell, 2018, 173, 1356-1369.e22.	13.5	366
24	Postmitotic Fate Refinement in the Subplate. Cell Stem Cell, 2018, 23, 7-9.	5.2	6
25	High-resolution comparative analysis of great ape genomes. Science, 2018, 360, .	6.0	304
26	Human iPSC-Derived Cerebral Organoids Model Cellular Features of Lissencephaly and Reveal Prolonged Mitosis of Outer Radial Glia. Cell Stem Cell, 2017, 20, 435-449.e4.	5.2	463
27	Spatiotemporal gene expression trajectories reveal developmental hierarchies of the human cortex. Science, 2017, 358, 1318-1323.	6.0	717
28	Zika virus cell tropism in the developing human brain and inhibition by azithromycin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14408-14413.	3.3	432
29	Singleâ€cell sequencing maps gene expression to mutational phylogenies in <scp>PDGF</scp> â€•and <scp>EGF</scp> â€driven gliomas. Molecular Systems Biology, 2016, 12, 889.	3.2	91
30	Expression Analysis Highlights AXL as a Candidate Zika Virus Entry Receptor in Neural Stem Cells. Cell Stem Cell, 2016, 18, 591-596.	5.2	483
31	Single-cell analysis of long non-coding RNAs in the developing human neocortex. Genome Biology, 2016, 17, 67.	3.8	295
32	Primate Neurons Flex Their Musclin. Neuron, 2016, 92, 681-683.	3.8	2
33	Transformation of the Radial Glia Scaffold Demarcates Two Stages of Human Cerebral Cortex Development. Neuron, 2016, 91, 1219-1227.	3.8	264
34	Molecular Identity of Human Outer Radial Glia during Cortical Development. Cell, 2015, 163, 55-67.	13.5	698
35	Radial glia require PDGFDâ€“PDGFRÎ² signalling in human but not mouse neocortex. Nature, 2014, 515, 264-268.	13.7	145
36	Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex. Nature Biotechnology, 2014, 32, 1053-1058.	9.4	850

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37	Human-specific loss of regulatory DNA and the evolution of human-specific traits. Nature, 2011, 471, 216-219.	13.7	439