Simone Codeluppi

List of Publications by Year
in descending order

34 papers	11,221 citations	257450 24 h-index	361022 35 g-index

44 all docs	44 docs citations	44 times ranked	18023 citing authors

#	Article	IF	Citations
1	Cell types in the mouse cortex and hippocampus revealed by single-cell RNA-seq. Science, 2015, 347, 1138-1142.	12.6	2,779
2	Molecular Architecture of the Mouse Nervous System. Cell, 2018, 174, 999-1014.e22.	28.9	2,002
3	Visualization and analysis of gene expression in tissue sections by spatial transcriptomics. Science, 2016, 353, 78-82.	12.6	1,983
4	Single-Cell RNA-Seq Reveals Lineage and X Chromosome Dynamics in Human Preimplantation Embryos. Cell, 2016, 165, 1012-1026.	28.9	830
5	Oligodendrocyte heterogeneity in the mouse juvenile and adult central nervous system. Science, 2016, 352, 1326-1329.	12.6	817
6	Molecular Diversity of Midbrain Development in Mouse, Human, and Stem Cells. Cell, 2016, 167, 566-580.e19.	28.9	687
7	Spatial organization of the somatosensory cortex revealed by osmFISH. Nature Methods, 2018, 15, 932-935.	19.0	402
8	Tsc2-Rheb signaling regulates EphA-mediated axon guidance. Nature Neuroscience, 2010, 13, 163-172.	14.8	235
9	A comparative strategy for single-nucleus and single-cell transcriptomes confirms accuracy in predicted cell-type expression from nuclear RNA. Scientific Reports, 2017, 7, 6031.	3.3	209
10	The Rhebâ€“mTOR Pathway Is Upregulated in Reactive Astrocytes of the Injured Spinal Cord. Journal of Neuroscience, 2009, 29, 1093-1104.	3.6	136
11	Inhibition by Spinal Â- and Â-Opioid Agonists of Afferent-Evoked Substance P Release. Journal of Neuroscience, 2005, 25, 3651-3660.	3.6	112
12	Accurate length determination of DNA molecules visualized by atomic force microscopy: evidence for a partial B- to A-form transition on mica. Ultramicroscopy, 2001, 87, 55-66.	1.9	108
13	Collagen antibodyâ€“induced arthritis evokes persistent pain with spinal glial involvement and transient prostaglandin dependency. Arthritis and Rheumatism, 2012, 64, 3886-3896.	6.7	97
14	Spinal glial TLR4â€mediated nociception and production of prostaglandin E₂ and TNF. British Journal of Pharmacology, 2010, 160, 1754-1764.	5.4	92
15	Nogo receptor 1 regulates formation of lasting memories. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20476-20481.	7.1	76
16	Mammalian target of rapamycin in spinal cord neurons mediates hypersensitivity induced by peripheral inflammation. Neuroscience, 2010, 169, 1392-1402.	2.3	76
17	Cartilage-binding antibodies induce pain through immune complexâ€“mediated activation of neurons. Journal of Experimental Medicine, 2019, 216, 1904-1924.	8.5	71
18	Spinal Actions of Lipoxin A4 and 17(R)-Resolvin D1 Attenuate Inflammation-Induced Mechanical Hypersensitivity and Spinal TNF Release. PLoS ONE, 2013, 8, e75543.	2.5	65

#	Article	IF	Citations
19	Visualizing RNA Extrusion and DNA Wrapping in Transcription Elongation Complexes of Bacterial and Eukaryotic RNA Polymerases. Journal of Molecular Biology, 2003, 326, 1413-1426.	4.2	62
20	Cell segmentation-free inference of cell types from in situ transcriptomics data. Nature Communications, 2021, 12, 3545.	12.8	52
21	Imatinib Enhances Functional Outcome after Spinal Cord Injury. PLoS ONE, 2012, 7, e38760.	2.5	48
22	Disrupted Neuroglial Metabolic Coupling after Peripheral Surgery. Journal of Neuroscience, 2018, 38, 452-464.	3.6	44
23	Influence of rat substrain and growth conditions on the characteristics of primary cultures of adult rat spinal cord astrocytes. Journal of Neuroscience Methods, 2011, 197, 118-127.	2.5	42
24	Interleukin-6 Secretion by Astrocytes Is Dynamically Regulated by PI3K-mTOR-Calcium Signaling. PLoS ONE, 2014, 9, e92649.	2.5	31
25	Spinal release of tumour necrosis factor activates câ€<scp>J</scp>un <scp>N</scp>â€terminal kinase and mediates inflammationâ€induced hypersensitivity. European Journal of Pain, 2015, 19, 260-270.	2.8	18
26	Pentoxifylline and propentofylline prevent proliferation and activation of the mammalian target of rapamycin and mitogen activated protein kinase in cultured spinal astrocytes. Journal of Neuroscience Research, 2013, 91, 300-312.	2.9	17
27	Spatial tissue profiling by imaging-free molecular tomography. Nature Biotechnology, 2021, 39, 968-977.	17.5	16
28	An ex vivo spinal cord injury model to study ependymal cells in adult mouse tissue. Experimental Cell Research, 2017, 357, 236-242.	2.6	12
29	GRK3 deficiency elicits brain immune activation and psychosis. Molecular Psychiatry, 2021, 26, 6820-6832.	7.9	12
30	A cell fitness selection model for neuronal survival during development. Nature Communications, 2019, 10, 4137.	12.8	10
31	BCGâ€induced cytokine release in bladder cancer cells is regulated by Ca 2+ signaling. Molecular Oncology, 2019, 13, 202-211.	4.6	9
32	Spatial and Cellular Characterization of mTORC 1 Activation after Spinal Cord Injury Reveals Biphasic Increase Mainly Attributed to Microglia/Macrophages. Brain Pathology, 2014, 24, 557-567.	4.1	5
33	Human ex vivo spinal cord slice culture as a useful model of neural development, lesion, and allogeneic neural cell therapy. Stem Cell Research and Therapy, 2020, 11, 320.	5.5	4
34	Response to the report, â€œA re-assessment of treatment with a tyrosine kinase inhibitor (imatinib) on tissue sparing and functional recovery after spinal cord injuryâ€•by Sharp et al.. Experimental Neurology, 2014, 257, 182-185.	4.1	2