

# Bruno Cauli

## List of Publications by Year in descending order

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52  
papers

7,257  
citations

147566

31  
h-index

189595

50  
g-index

58  
all docs

58  
docs citations

58  
times ranked

7354  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2008, 9, 557-568.	4.9	1,314
2	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013, 14, 202-216.	4.9	707
3	Molecular and Physiological Diversity of Cortical Nonpyramidal Cells. <i>Journal of Neuroscience</i> , 1997, 17, 3894-3906.	1.7	636
4	Cortical GABA Interneurons in Neurovascular Coupling: Relays for Subcortical Vasoactive Pathways. <i>Journal of Neuroscience</i> , 2004, 24, 8940-8949.	1.7	501
5	Identification of sleep-promoting neurons in vitro. <i>Nature</i> , 2000, 404, 992-995.	13.7	448
6	Classification of fusiform neocortical interneurons based on unsupervised clustering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 6144-6149.	3.3	286
7	Selective Excitation of Subtypes of Neocortical Interneurons by Nicotinic Receptors. <i>Journal of Neuroscience</i> , 1999, 19, 5228-5235.	1.7	237
8	Neurogliaform Neurons Form a Novel Inhibitory Network in the Hippocampal CA1 Area. <i>Journal of Neuroscience</i> , 2005, 25, 6775-6786.	1.7	233
9	Classification of NPY-Expressing Neocortical Interneurons. <i>Journal of Neuroscience</i> , 2009, 29, 3642-3659.	1.7	212
10	5-HT <sub>3</sub> Receptors Mediate Serotonergic Fast Synaptic Excitation of Neocortical Vasoactive Intestinal Peptide/Cholecystokinin Interneurons. <i>Journal of Neuroscience</i> , 2002, 22, 7389-7397.	1.7	204
11	Revisiting the role of neurons in neurovascular coupling. <i>Frontiers in Neuroenergetics</i> , 2010, 2, 9.	5.3	204
12	The endogenous somnogen adenosine excites a subset of sleep-promoting neurons via A <sub>2A</sub> receptors in the ventrolateral preoptic nucleus. <i>Neuroscience</i> , 2005, 134, 1377-1390.	1.1	180
13	Impairment of Glycolysis-Derived L-Serine Production in Astrocytes Contributes to Cognitive Deficits in Alzheimer's Disease. <i>Cell Metabolism</i> , 2020, 31, 503-517.e8.	7.2	160
14	Common Origins of Hippocampal Ivy and Nitric Oxide Synthase Expressing Neurogliaform Cells. <i>Journal of Neuroscience</i> , 2010, 30, 2165-2176.	1.7	153
15	Pyramidal Neurons Are "Neurogenic Hubs" in the Neurovascular Coupling Response to Whisker Stimulation. <i>Journal of Neuroscience</i> , 2011, 31, 9836-9847.	1.7	148
16	Properties of bipolar VIPergic interneurons and their excitation by pyramidal neurons in the rat neocortex. <i>European Journal of Neuroscience</i> , 1998, 10, 3617-3628.	1.2	145
17	<i>in vivo</i> 3D Morphology of Astrocyte-Vasculature Interactions in the Somatosensory Cortex: Implications for Neurovascular Coupling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 795-806.	2.4	144
18	Functional CB <sub>1</sub> Receptors Are Broadly Expressed in Neocortical GABAergic and Glutamatergic Neurons. <i>Journal of Neurophysiology</i> , 2007, 97, 2580-2589.	0.9	139

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19	Glutamatergic Control of Microvascular Tone by Distinct GABA Neurons in the Cerebellum. <i>Journal of Neuroscience</i> , 2006, 26, 6997-7006.	1.7	119
20	Expression of Functional Tyrosine Kinase B Receptors by Rhythmically Active Respiratory Neurons in the Pre-Bötzing Complex of Neonatal Mice. <i>Journal of Neuroscience</i> , 2003, 23, 7685-7689.	1.7	87
21	COX-2-Derived Prostaglandin E2 Produced by Pyramidal Neurons Contributes to Neurovascular Coupling in the Rodent Cerebral Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 11791-11810.	1.7	85
22	Activation of cortical interneurons during sleep: an anatomical link to homeostatic sleep regulation?. <i>Trends in Neurosciences</i> , 2011, 34, 10-19.	4.2	81
23	Multiscale single-cell analysis reveals unique phenotypes of raphe 5-HT neurons projecting to the forebrain. <i>Brain Structure and Function</i> , 2016, 221, 4007-4025.	1.2	79
24	Revisiting enigmatic cortical calretinin-expressing interneurons. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 52.	0.9	70
25	Nitric Oxide Release during Evoked Neuronal Activity in Cerebellum Slices: Detection with Platinized Carbon-Fiber Microelectrodes. <i>ChemPhysChem</i> , 2006, 7, 181-187.	1.0	66
26	Calcium-Permeable AMPA Receptors Provide a Common Mechanism for LTP in Glutamatergic Synapses of Distinct Hippocampal Interneuron Types. <i>Journal of Neuroscience</i> , 2012, 32, 6511-6516.	1.7	64
27	Glutamatergic Nonpyramidal Neurons From Neocortical Layer VI and Their Comparison With Pyramidal and Spiny Stellate Neurons. <i>Journal of Neurophysiology</i> , 2009, 101, 641-654.	0.9	61
28	Extensive Overlap of Mu-Opioid and Nicotinic Sensitivity in Cortical Interneurons. <i>Cerebral Cortex</i> , 2007, 17, 1948-1957.	1.6	60
29	Beyond the frontiers of neuronal types. <i>Frontiers in Neural Circuits</i> , 2013, 7, 13.	1.4	47
30	Lactate is an energy substrate for rodent cortical neurons and enhances their firing activity. <i>ELife</i> , 2021, 10, .	2.8	42
31	Characterization and Distribution of Reelin-Positive Interneuron Subtypes in the Rat Barrel Cortex. <i>Cerebral Cortex</i> , 2014, 24, 3046-3058.	1.6	39
32	Tissue Plasminogen Activator Expression Is Restricted to Subsets of Excitatory Pyramidal Glutamatergic Neurons. <i>Molecular Neurobiology</i> , 2016, 53, 5000-5012.	1.9	36
33	Noradrenalin and dopamine receptors both control cAMP-PKA signaling throughout the cerebral cortex. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 247.	1.8	34
34	VIP, CRF, and PACAP Act at Distinct Receptors to Elicit Different cAMP/PKA Dynamics in the Neocortex. <i>Cerebral Cortex</i> , 2011, 21, 708-718.	1.6	31
35	Regulation of Perineuronal Nets in the Adult Cortex by the Activity of the Cortical Network. <i>Journal of Neuroscience</i> , 2021, 41, 5779-5790.	1.7	31
36	Molecular and functional characterization of GAD67-expressing, newborn granule cells in mouse dentate gyrus. <i>Frontiers in Neural Circuits</i> , 2013, 7, 60.	1.4	28

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37	Comment on "Principles of connectivity among morphologically defined cell types in adult neocortex". <i>Science</i> , 2016, 353, 1108-1108.	6.0	24
38	Brain Perfusion and Astrocytes. <i>Trends in Neurosciences</i> , 2018, 41, 409-413.	4.2	23
39	Astrocytes respond to a neurotoxic A $\beta$ 2 fragment with state-dependent Ca $^{2+}$ alteration and multiphasic transmitter release. <i>Acta Neuropathologica Communications</i> , 2021, 9, 44.	2.4	15
40	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , 2020, 220, 117069.	2.1	14
41	Cortical nNOS/NK1 Receptor Neurons are Regulated by Cholinergic Projections From the Basal Forebrain. <i>Cerebral Cortex</i> , 2018, 28, 1959-1979.	1.6	12
42	Cyclooxygenase-2-Derived Prostaglandins Mediate Cerebral Microcirculation in a Juvenile Ischemic Rat Model. <i>Stroke</i> , 2016, 47, 3048-3052.	1.0	11
43	Supragranular Pyramidal Cells Exhibit Early Metabolic Alterations in the 3xTg-AD Mouse Model of Alzheimer's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 216.	1.8	11
44	Single Cell Multiplex Reverse Transcription Polymerase Chain Reaction After Patch-clamp. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	9
45	Excitation of Cortical nNOS/NK1R Neurons by Hypocretin 1 is Independent of Sleep Homeostasis. <i>Cerebral Cortex</i> , 2019, 29, 1090-1108.	1.6	8
46	Cortical NO interneurons: from embryogenesis to functions. <i>Frontiers in Neural Circuits</i> , 2013, 7, 105.	1.4	3
47	Bioluminescence calcium imaging of network dynamics and their cholinergic modulation in slices of cerebral cortex from male rats. <i>Journal of Neuroscience Research</i> , 2019, 97, 414-432.	1.3	3
48	Chapter 9. Gene Analysis of Single Cells. <i>RSC Nanoscience and Nanotechnology</i> , 2010, , 81-92.	0.2	3
49	Gene Expression Analysis by Multiplex Single-Cell RT-PCR. <i>Methods in Molecular Biology</i> , 2019, 1941, 139-154.	0.4	2
50	DNA Microarrays in Neurobiology. <i>Frontiers in Neuroscience</i> , 2001, , .	0.0	1
51	In vitro study of the sleep promoting neurons from the ventrolateral preoptic nucleus. <i>Sleep and Biological Rhythms</i> , 2004, 2, S23-S24.	0.5	0
52	Beyond the frontiers of neuronal types: fuzzy classification of interneurons. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	0