

Peter Kloppenburg

List of Publications by Year in descending order

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58
papers

3,471
citations

147801

31
h-index

149698

56
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66
all docs

66
docs citations

66
times ranked

4479
citing authors

#	ARTICLE	IF	CITATIONS
1	The fat mass and obesity associated gene (Fto) regulates activity of the dopaminergic midbrain circuitry. <i>Nature Neuroscience</i> , 2013, 16, 1042-1048.	14.8	414
2	Neonatal Insulin Action Impairs Hypothalamic Neurocircuit Formation in Response to Maternal High-Fat Feeding. <i>Cell</i> , 2014, 156, 495-509.	28.9	299
3	AgRP Neurons Control Systemic Insulin Sensitivity via Myostatin Expression in Brown Adipose Tissue. <i>Cell</i> , 2016, 165, 125-138.	28.9	222
4	High-fat feeding promotes obesity via insulin receptor/PI3K-dependent inhibition of SF-1 VMH neurons. <i>Nature Neuroscience</i> , 2011, 14, 911-918.	14.8	205
5	Role for Insulin Signaling in Catecholaminergic Neurons in Control of Energy Homeostasis. <i>Cell Metabolism</i> , 2011, 13, 720-728.	16.2	156
6	Enhanced Stat3 Activation in POMC Neurons Provokes Negative Feedback Inhibition of Leptin and Insulin Signaling in Obesity. <i>Journal of Neuroscience</i> , 2009, 29, 11582-11593.	3.6	153
7	PDK1 Deficiency in POMC-Expressing Cells Reveals FOXO1-Dependent and -Independent Pathways in Control of Energy Homeostasis and Stress Response. <i>Cell Metabolism</i> , 2008, 7, 291-301.	16.2	141
8	Serotonin Enhances Central Olfactory Neuron Responses to Female Sex Pheromone in the Male Sphinx Moth <i>Manduca sexta</i> . <i>Journal of Neuroscience</i> , 1999, 19, 8172-8181.	3.6	112
9	Distributed Effects of Dopamine Modulation in the Crustacean Pyloric Network. <i>Annals of the New York Academy of Sciences</i> , 1998, 860, 155-167.	3.8	108
10	Dopamine Modulates Two Potassium Currents and Inhibits the Intrinsic Firing Properties of an Identified Motor Neuron in a Central Pattern Generator Network. <i>Journal of Neurophysiology</i> , 1999, 81, 29-38.	1.8	103
11	Distinct Roles for JNK and IKK Activation in Agouti-Related Peptide Neurons in the Development of Obesity and Insulin Resistance. <i>Cell Reports</i> , 2014, 9, 1495-1506.	6.4	87
12	GLP-1 Receptor Signaling in Astrocytes Regulates Fatty Acid Oxidation, Mitochondrial Integrity, and Function. <i>Cell Metabolism</i> , 2020, 31, 1189-1205.e13.	16.2	76
13	Lower Affinity of Isradipine for L-Type Ca ²⁺ Channels during Substantia Nigra Dopamine Neuron-Like Activity: Implications for Neuroprotection in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2017, 37, 6761-6777.	3.6	72
14	Highly Localized Ca ²⁺ Accumulation Revealed by Multiphoton Microscopy in an Identified Motoneuron and Its Modulation by Dopamine. <i>Journal of Neuroscience</i> , 2000, 20, 2523-2533.	3.6	65
15	Cav2.3 channels contribute to dopaminergic neuron loss in a model of Parkinson's disease. <i>Nature Communications</i> , 2019, 10, 5094.	12.8	65
16	Intrinsic Membrane Properties and Inhibitory Synaptic Input of Kenyon Cells as Mechanisms for Sparse Coding?. <i>Journal of Neurophysiology</i> , 2009, 102, 1538-1550.	1.8	64
17	Hypothalamic UDP Increases in Obesity and Promotes Feeding via P2Y6-Dependent Activation of AgRP Neurons. <i>Cell</i> , 2015, 162, 1404-1417.	28.9	64
18	PNOCARC Neurons Promote Hyperphagia and Obesity upon High-Fat-Diet Feeding. <i>Neuron</i> , 2020, 106, 1009-1025.e10.	8.1	64

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19	Functionally distinct POMC-expressing neuron subpopulations in hypothalamus revealed by intersectional targeting. <i>Nature Neuroscience</i> , 2021, 24, 913-929.	14.8	64
20	S-sulfocysteine/NMDA receptor-dependent signaling underlies neurodegeneration in molybdenum cofactor deficiency. <i>Journal of Clinical Investigation</i> , 2017, 127, 4365-4378.	8.2	62
21	Dopamine Modulation of Calcium Currents in Pyloric Neurons of the Lobster Stomatogastric Ganglion. <i>Journal of Neurophysiology</i> , 2003, 90, 631-643.	1.8	56
22	Insulin-Dependent Activation of MCH Neurons Impairs Locomotor Activity and Insulin Sensitivity in Obesity. <i>Cell Reports</i> , 2016, 17, 2512-2521.	6.4	56
23	Serotonin Modulation of Moth Central Olfactory Neurons. <i>Annual Review of Entomology</i> , 2008, 53, 179-190.	11.8	49
24	AgRP Innervation onto POMC Neurons Increases with Age and Is Accelerated with Chronic High-Fat Feeding in Male Mice. <i>Endocrinology</i> , 2013, 154, 172-183.	2.8	47
25	Toward a single-cell-based analysis of neuropeptide expression in <i>Periplaneta americana</i> antennal lobe neurons. <i>Journal of Comparative Neurology</i> , 2012, 520, 694-716.	1.6	45
26	Energy imbalance alters Ca ²⁺ handling and excitability of POMC neurons. <i>ELife</i> , 2017, 6, .	6.0	45
27	p53 in AgRP neurons is required for protection against diet-induced obesity via JNK1. <i>Nature Communications</i> , 2018, 9, 3432.	12.8	41
28	Diet-Induced Growth Is Regulated via Acquired Leptin Resistance and Engages a Pomc-Somatostatin-Growth Hormone Circuit. <i>Cell Reports</i> , 2018, 23, 1728-1741.	6.4	41
29	Calcium Current Diversity in Physiologically Different Local Interneuron Types of the Antennal Lobe. <i>Journal of Neuroscience</i> , 2009, 29, 716-726.	3.6	39
30	Astrocyte-specific deletion of the mitochondrial <i>mAAA</i> protease reveals glial contribution to neurodegeneration. <i>Glia</i> , 2019, 67, 1526-1541.	4.9	36
31	Inhibition of P2Y6 Signaling in AgRP Neurons Reduces Food Intake and Improves Systemic Insulin Sensitivity in Obesity. <i>Cell Reports</i> , 2017, 18, 1587-1597.	6.4	35
32	Antagonistic modulation of NPY/AgRP and POMC neurons in the arcuate nucleus by noradrenalin. <i>ELife</i> , 2017, 6, .	6.0	35
33	Distinct Electrophysiological Properties in Subtypes of Nonspiking Olfactory Local Interneurons Correlate With Their Cell Type-Specific Ca ²⁺ Current Profiles. <i>Journal of Neurophysiology</i> , 2009, 102, 2834-2845.	1.8	33
34	Mild Impairment of Mitochondrial OXPHOS Promotes Fatty Acid Utilization in POMC Neurons and Improves Glucose Homeostasis in Obesity. <i>Cell Reports</i> , 2018, 25, 383-397.e10.	6.4	26
35	Choline acetyltransferase-like immunoreactivity in a physiologically distinct subtype of olfactory nonspiking local interneurons in the cockroach (<i>periplaneta americana</i>). <i>Journal of Comparative Neurology</i> , 2013, 521, 3556-3569.	1.6	22
36	Neuronal Actin Dynamics, Spine Density and Neuronal Dendritic Complexity Are Regulated by CAP2. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 180.	3.7	21

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37	Cholinergic Currents in Leg Motoneurons of <i>Carausius morosus</i> . Journal of Neurophysiology, 2010, 103, 2770-2782.	1.8	20
38	Colocalization of allatotropin and tachykinin-related peptides with classical transmitters in physiologically distinct subtypes of olfactory local interneurons in the cockroach <i>(Periplaneta)</i> Tj ETQq0 0 0 rgBTk Overlockd 10 Tf 50 6	1.8	20
39	Neural Coding: Sparse but On Time. Current Biology, 2014, 24, R957-R959.	3.9	18
40	Functional Parameters of Voltage-Activated Ca ²⁺ Currents From Olfactory Interneurons in the Antennal Lobe of <i>Periplaneta americana</i> . Journal of Neurophysiology, 2008, 99, 320-332.	1.8	17
41	Rapid and Slow Chemical Synaptic Interactions of Cholinergic Projection Neurons and GABAergic Local Interneurons in the Insect Antennal Lobe. Journal of Neuroscience, 2014, 34, 13039-13046.	3.6	17
42	The in vivo timeline of differentiation of engrafted human neural progenitor cells. Stem Cell Research, 2019, 37, 101429.	0.7	17
43	Orexin receptors 1 and 2 in serotonergic neurons differentially regulate peripheral glucose metabolism in obesity. Nature Communications, 2021, 12, 5249.	12.8	17
44	Heterogeneous Effects of Dopamine on Highly Localized, Voltage-Induced Ca ²⁺ Accumulation in Identified Motoneurons. Journal of Neurophysiology, 2007, 98, 2910-2917.	1.8	16
45	Differences of Ca ²⁺ handling properties in identified central olfactory neurons of the antennal lobe. Cell Calcium, 2009, 46, 87-98.	2.4	15
46	Odor processing in the cockroach antennal lobe—the network components. Cell and Tissue Research, 2021, 383, 59-73.	2.9	15
47	Analysis of Single Neurons by Perforated Patch Clamp Recordings and MALDI-TOF Mass Spectrometry. ACS Chemical Neuroscience, 2018, 9, 2089-2096.	3.5	13
48	Human Neural Stem Cell Induced Functional Network Stabilization After Cortical Stroke: A Longitudinal Resting-State fMRI Study in Mice. Frontiers in Cellular Neuroscience, 2020, 14, 86.	3.7	12
49	Î2-subunit alternative splicing stabilizes Cav2.3 Ca ²⁺ channel activity during continuous midbrain dopamine neuron-like activity. ELife, 0, 11, .	6.0	12
50	Quantitative Estimation of Calcium Dynamics From Ratiometric Measurements: A Direct, Nonratioing Method. Journal of Neurophysiology, 2010, 103, 1130-1144.	1.8	7
51	Properties and physiological function of Ca ²⁺ -dependent K ⁺ currents in uniglomerular olfactory projection neurons. Journal of Neurophysiology, 2016, 115, 2330-2340.	1.8	7
52	Hypothalamic Pomc Neurons Innervate the Spinal Cord and Modulate the Excitability of Premotor Circuits. Current Biology, 2020, 30, 4579-4593.e7.	3.9	6
53	Analysis of neuronal Ca ²⁺ handling properties by combining perforated patch clamp recordings and the added buffer approach. Cell Calcium, 2021, 97, 102411.	2.4	5
54	Task-specific roles of local interneurons for inter- and intraglomerular signaling in the insect antennal lobe. ELife, 2021, 10, .	6.0	5

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55	Transient voltage-activated K ⁺ currents in central antennal lobe neurons: cell type-specific functional properties. <i>Journal of Neurophysiology</i> , 2017, 117, 2053-2064.	1.8	4
56	Estimating background-subtracted fluorescence transients in calcium imaging experiments: A quantitative approach. <i>Cell Calcium</i> , 2013, 54, 71-85.	2.4	2
57	Datasets for calcium dynamics comparison between the whole-cell and a \hat{I}^2 -escin based perforated patch configuration in brain slices from adult mice. <i>Data in Brief</i> , 2021, 39, 107494.	1.0	1
58	A simple method for getting standard error on the ratiometric calcium estimator. <i>MethodsX</i> , 2021, 8, 101548.	1.6	0