

Peter Somogyi

List of Publications by Year in descending order

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57
papers

11,848
citations

76294

40
h-index

175177

52
g-index

60
all docs

60
docs citations

60
times ranked

8367
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal Diversity and Temporal Dynamics: The Unity of Hippocampal Circuit Operations. <i>Science</i> , 2008, 321, 53-57.	6.0	1,764
2	Glutamatergic synapses on oligodendrocyte precursor cells in the hippocampus. <i>Nature</i> , 2000, 405, 187-191.	13.7	880
3	Defined types of cortical interneurone structure space and spike timing in the hippocampus. <i>Journal of Physiology</i> , 2005, 562, 9-26.	1.3	795
4	Perisynaptic Location of Metabotropic Glutamate Receptors mGluR1 and mGluR5 on Dendrites and Dendritic Spines in the Rat Hippocampus. <i>European Journal of Neuroscience</i> , 1996, 8, 1488-1500.	1.2	775
5	Diverse sources of hippocampal unitary inhibitory postsynaptic potentials and the number of synaptic release sites. <i>Nature</i> , 1994, 368, 823-828.	13.7	692
6	Proximally targeted GABAergic synapses and gap junctions synchronize cortical interneurons. <i>Nature Neuroscience</i> , 2000, 3, 366-371.	7.1	603
7	Increased number of synaptic GABAA receptors underlies potentiation at hippocampal inhibitory synapses. <i>Nature</i> , 1998, 395, 172-177.	13.7	437
8	A High Degree of Spatial Selectivity in the Axonal and Dendritic Domains of Physiologically Identified Local-circuit Neurons in the Dentate Gyms of the Rat Hippocampus. <i>European Journal of Neuroscience</i> , 1993, 5, 395-410.	1.2	396
9	Target-cell-specific concentration of a metabotropic glutamate receptor in the presynaptic active zone. <i>Nature</i> , 1996, 381, 523-525.	13.7	378
10	Spike timing of dendrite-targeting bistratified cells during hippocampal network oscillations in vivo. <i>Nature Neuroscience</i> , 2004, 7, 41-47.	7.1	339
11	Cell surface domain specific postsynaptic currents evoked by identified GABAergic neurones in rat hippocampus in vitro. <i>Journal of Physiology</i> , 2000, 524, 91-116.	1.3	318
12	Neuronal Diversity in GABAergic Long-Range Projections from the Hippocampus. <i>Journal of Neuroscience</i> , 2007, 27, 8790-8804.	1.7	304
13	Cell Type-Specific Tuning of Hippocampal Interneuron Firing during Gamma Oscillations In Vivo. <i>Journal of Neuroscience</i> , 2007, 27, 8184-8189.	1.7	273
14	Subdivisions in the Multiple GABAergic Innervation of Granule Cells in the Dentate Gyrus of the Rat Hippocampus. <i>European Journal of Neuroscience</i> , 1993, 5, 411-429.	1.2	248
15	Classes and continua of hippocampal CA1 inhibitory neurons revealed by single-cell transcriptomics. <i>PLoS Biology</i> , 2018, 16, e2006387.	2.6	226
16	Behavior-dependent specialization of identified hippocampal interneurons. <i>Nature Neuroscience</i> , 2012, 15, 1265-1271.	7.1	223
17	Ivy Cells: A Population of Nitric-Oxide-Producing, Slow-Spiking GABAergic Neurons and Their Involvement in Hippocampal Network Activity. <i>Neuron</i> , 2008, 57, 917-929.	3.8	221
18	Input-dependent synaptic targeting of β 2-subunit-containing GABA receptors in synapses of hippocampal pyramidal cells of the rat. <i>European Journal of Neuroscience</i> , 2001, 13, 428-442.	1.2	178

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19	Unitary IPSPs evoked by interneurons at the stratum radiatum-stratum lacunosum-moleculare border in the CA1 area of the rat hippocampus in vitro. <i>Journal of Physiology</i> , 1998, 506, 755-773.	1.3	173
20	Immunocytochemical Localization of the $\alpha 1$ and $\alpha 2/3$ Subunits of the GABA _A Receptor in Relation to Specific GABAergic Synapses in the Dentate Gyrus. <i>European Journal of Neuroscience</i> , 1995, 7, 630-646.	1.2	159
21	Sleep and Movement Differentiates Actions of Two Types of Somatostatin-Expressing GABAergic Interneuron in Rat Hippocampus. <i>Neuron</i> , 2014, 82, 872-886.	3.8	149
22	Synaptic target selectivity and input of GABAergic basket and bistratified interneurons in the CA1 area of the rat hippocampus. , 1996, 6, 306-329.		139
23	Network state-dependent inhibition of identified hippocampal CA3 axo-axonic cells in vivo. <i>Nature Neuroscience</i> , 2013, 16, 1802-1811.	7.1	128
24	Enrichment of cholinergic synaptic terminals on GABAergic neurons and coexistence of immunoreactive GABA and choline acetyltransferase in the same synaptic terminals in the striate cortex of the cat. <i>Journal of Comparative Neurology</i> , 1991, 304, 666-680.	0.9	127
25	Metabotropic Glutamate Receptor 8-Expressing Nerve Terminals Target Subsets of GABAergic Neurons in the Hippocampus. <i>Journal of Neuroscience</i> , 2005, 25, 10520-10536.	1.7	124
26	Synaptic Targets of Medial Septal Projections in the Hippocampus and Extrahippocampal Cortices of the Mouse. <i>Journal of Neuroscience</i> , 2015, 35, 15812-15826.	1.7	124
27	Immunoreactivity for the GABA _A Receptor $\alpha 1$ Subunit, Somatostatin and Connexin36 Distinguishes Axoaxonic, Basket, and Bistratified Interneurons of the Rat Hippocampus. <i>Cerebral Cortex</i> , 2007, 17, 2094-2107.	1.6	123
28	Physiological properties of anatomically identified basket and bistratified cells in the CA1 area of the rat hippocampus in vitro. , 1996, 6, 294-305.		119
29	Cell type dependence and variability in the short-term plasticity of EPSCs in identified mouse hippocampal interneurons. <i>Journal of Physiology</i> , 2002, 542, 193-210.	1.3	119
30	Temporal redistribution of inhibition over neuronal subcellular domains underlies state-dependent rhythmic change of excitability in the hippocampus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20120518.	1.8	112
31	Enrichment of mGluR7a in the Presynaptic Active Zones of GABAergic and Non-GABAergic Terminals on Interneurons in the Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2002, 12, 961-974.	1.6	98
32	Temporal Dynamics of Parvalbumin-Expressing Axo-axonic and Basket Cells in the Rat Medial Prefrontal Cortex <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2012, 32, 16496-16502.	1.7	87
33	High level of mGluR7 in the presynaptic active zones of select populations of GABAergic terminals innervating interneurons in the rat hippocampus. <i>European Journal of Neuroscience</i> , 2003, 17, 2503-2520.	1.2	85
34	Distinct Dendritic Arborization and <i>In Vivo</i> Firing Patterns of Parvalbumin-Expressing Basket Cells in the Hippocampal Area CA3. <i>Journal of Neuroscience</i> , 2013, 33, 6809-6825.	1.7	78
35	Extrinsic and local glutamatergic inputs of the rat hippocampal CA1 area differentially innervate pyramidal cells and interneurons. <i>Hippocampus</i> , 2012, 22, 1379-1391.	0.9	75
36	Terminal Field and Firing Selectivity of Cholecystokinin-Expressing Interneurons in the Hippocampal CA3 Area. <i>Journal of Neuroscience</i> , 2011, 31, 18073-18093.	1.7	70

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37	Neurons Expressing 5-HT ₂ Receptors in the Rat Brain: Neurochemical Identification of Cell Types by Immunocytochemistry. <i>Neuropsychopharmacology</i> , 1994, 11, 157-166.	2.8	64
38	Connectivity and network state-dependent recruitment of long-range VIP-GABAergic neurons in the mouse hippocampus. <i>Nature Communications</i> , 2018, 9, 5043.	5.8	63
39	Behavior-Dependent Activity and Synaptic Organization of Septo-hippocampal GABAergic Neurons Selectively Targeting the Hippocampal CA3 Area. <i>Neuron</i> , 2017, 96, 1342-1357.e5.	3.8	57
40	Depression of GABAergic input to identified hippocampal neurons by group III metabotropic glutamate receptors in the rat. <i>European Journal of Neuroscience</i> , 2004, 19, 2727-2740.	1.2	55
41	Rhythmically Active Enkephalin-Expressing GABAergic Cells in the CA1 Area of the Hippocampus Project to the Subiculum and Preferentially Innervate Interneurons. <i>Journal of Neuroscience</i> , 2008, 28, 10017-10022.	1.7	51
42	Membrane Topology of the GluR1 Glutamate Receptor Subunit: Epitope Mapping by Site-Directed Antipeptide Antibodies. <i>Journal of Neurochemistry</i> , 1994, 63, 683-693.	2.1	46
43	Hippocampus: Intrinsic Organization. , 2010, , 148-164.		46
44	Behavior-dependent activity patterns of GABAergic long-range projecting neurons in the rat hippocampus. <i>Hippocampus</i> , 2017, 27, 359-377.	0.9	43
45	Synaptic organization of cortico-cortical connections from the primary visual cortex to the posteromedial lateral suprasylvian visual area in the cat. <i>Journal of Comparative Neurology</i> , 1991, 310, 253-266.	0.9	38
46	Molecular and Electrophysiological Characterization of GABAergic Interneurons Expressing the Transcription Factor COUP-TFII in the Adult Human Temporal Cortex. <i>Cerebral Cortex</i> , 2015, 25, 4430-4449.	1.6	38
47	Spatio-temporal specialization of GABAergic septo-hippocampal neurons for rhythmic network activity. <i>Brain Structure and Function</i> , 2018, 223, 2409-2432.	1.2	37
48	Group II Metabotropic Glutamate Receptors Mediate Presynaptic Inhibition of Excitatory Transmission in Pyramidal Neurons of the Human Cerebral Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 508.	1.8	34
49	GABAergic Medial Septal Neurons with Low-Rhythmic Firing Innervating the Dentate Gyrus and Hippocampal Area CA3. <i>Journal of Neuroscience</i> , 2019, 39, 4527-4549.	1.7	31
50	Shared rhythmic subcortical GABAergic input to the entorhinal cortex and presubiculum. <i>ELife</i> , 2018, 7, .	2.8	26
51	Comment on "Principles of connectivity among morphologically defined cell types in adult neocortex". <i>Science</i> , 2016, 353, 1108-1108.	6.0	24
52	Long-term plasticity in identified hippocampal GABAergic interneurons in the CA1 area in vivo. <i>Brain Structure and Function</i> , 2017, 222, 1809-1827.	1.2	22
53	Synaptic organisation and behaviour-dependent activity of mGluR8a-innervated GABAergic trilaminar cells projecting from the hippocampus to the subiculum. <i>Brain Structure and Function</i> , 2020, 225, 705-734.	1.2	11
54	Tonic GABA _A Receptor-Mediated Currents of Human Cortical GABAergic Interneurons Vary Amongst Cell Types. <i>Journal of Neuroscience</i> , 2021, 41, 9702-9719.	1.7	9

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55	Changing phase relationship of the stepping rhythm to neuronal oscillatory theta activity in the septo-hippocampal network of mice. <i>Brain Structure and Function</i> , 2020, 225, 871-879.	1.2	5
56	Differential effects of group III metabotropic glutamate receptors on spontaneous inhibitory synaptic currents in spine-innervating double bouquet and parvalbumin-expressing dendrite-targeting GABAergic interneurons in human neocortex. <i>Cerebral Cortex</i> , 2023, 33, 2101-2142.	1.6	2
57	János Szentágothai. 31 October 1912 – 8 September 1994. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2013, 59, 383-406.	0.1	0