ZoltÃ¡n F KisvÃ¡rday

List of Publications by Year
in descending order

38 papers	5,083 citations	279798 23 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	5633 citing authors

#	Article	IF	Citations
1	Application of the mirror technique for block-face scanning electron microscopy. Brain Structure and Function, 2022, 227, 1933-1947.	2.3	1
2	The thermodynamics of cognition: A mathematical treatment. Computational and Structural Biotechnology Journal, 2021, 19, 784-793.	4.1	6
3	Application of the Mirror Technique for Three-Dimensional Electron Microscopy of Neurochemically Identified GABA-ergic Dendrites. Frontiers in Neuroanatomy, 2021, 15, 652422.	1.7	1
4	Radiocarbon Map of a Bomb-Peak Labeled Human Eye. Radiocarbon, 2020, 62, 189-196.	1.8	4
5	The thermodynamic brain and the evolution of intellect: the role of mental energy. Cognitive Neurodynamics, 2020, 14, 743-756.	4.0	15
6	Prophylactic, single-drug cardioprotection in a comparative, experimental study of doxorubicin-induced cardiomyopathy. Journal of Translational Medicine, 2020, 18, 470.	4.4	6
7	Distinct Heterosynaptic Plasticity in Fast Spiking and Non-Fast-Spiking Inhibitory Neurons in Rat Visual Cortex. Journal of Neuroscience, 2019, 39, 6865-6878.	3.6	16
8	Advantages of prophylactic versus conventionally scheduled heart failure therapy in an experimental model of doxorubicin-induced cardiomyopathy. Journal of Translational Medicine, 2019, 17, 229.	4.4	14
9	Axon topography of layer 6 spiny cells to orientation map in the primary visual cortex of the cat (area) Tj ETQq1 1 0.784314 rgBT /Ove	2.3	10
10	Optical Imaging of Intrinsic Neural Signals and Simultaneous MicroECoG Recording Using Polyimide Implants. Proceedings (mdpi), 2017, 1, .	0.2	3
11	Comment on â€œPrinciples of connectivity among morphologically defined cell types in adult neocortexâ€• Science, 2016, 353, 1108-1108.	12.6	24
12	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	28.9	1,258
13	Hidden Complexity of Synaptic Receptive Fields in Cat V1. Journal of Neuroscience, 2014, 34, 5515-5528.	3.6	36
14	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	10.2	707
15	How do you wire a brain?. Frontiers in Neuroanatomy, 2013, 7, 14.	1.7	7
16	Response to Comment on â€œUniversality in the Evolution of Orientation Columns in the Visual Cortexâ€œ. Science, 2012, 336, 413-413.	12.6	30
17	Communication and wiring in the cortical connectome. Frontiers in Neuroanatomy, 2012, 6, 42.	1.7	66
18	Axon Topography of Layer IV Spiny Cells to Orientation Map in the Cat Primary Visual Cortex (Area 18). Cerebral Cortex, 2011, 21, 1443-1458.	2.9	18

#	Article	IF	Citations
19	Neocortical Axon Arbors Trade-off Material and Conduction Delay Conservation. PLoS Computational Biology, 2010, 6, e1000711.	3.2	73
20	The fractions of short- and long-range connections in the visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3555-3560.	7.1	184
21	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. Nature Reviews Neuroscience, 2008, 9, 557-568.	10.2	1,314
22	Visual resolution with retinal implants estimated from recordings in cat visual cortex. Vision Research, 2006, 46, 2675-2690.	1.4	92
23	Model-based analysis of excitatory lateral connections in the visual cortex. Journal of Comparative Neurology, 2006, 499, 861-881.	1.6	96
24	Cortical Activation Via an Implanted Wireless Retinal Prosthesis. , 2005, 46, 1780.		93
25	Independence of visuotopic representation and orientation map in the visual cortex of the cat. European Journal of Neuroscience, 2003, 18, 957-968.	2.6	35
26	One axon-multiple functions: specificity of lateral inhibitory connections by large basket cells. Journal of Neurocytology, 2002, 31, 255-264.	1.5	36
27	Topography of orientation centre connections in the primary visual cortex of the cat. NeuroReport, 2001, 12, 1693-1699.	1.2	41
28	Local lateral connectivity of inhibitory clutch cells in layer 4 of cat visual cortex (area 17). Experimental Brain Research, 2001, 140, 245-250.	1.5	43
29	Axonal topography of cortical basket cells in relation to orientation, direction, and ocular dominance maps. Journal of Comparative Neurology, 2001, 437, 259-285.	1.6	86
30	Combined physiological-anatomical approaches to study lateral inhibition. Journal of Neuroscience Methods, 2000, 103, 91-106.	2.5	24
31	Orientation topography of layer 4 lateral networks revealed by optical imaging in cat visual cortex (area 18). European Journal of Neuroscience, 1999, 11, 4291-4308.	2.6	49
32	Evidence for a contribution of lateral inhibition to orientation tuning and direction selectivity in cat visual cortex: reversible inactivation of functionally characterized sites combined with neuroanatomical tracing techniques. European Journal of Neuroscience, 1998, 10, 2056-2075.	2.6	121
33	Functional topography of single cortical cells: an intracellular approach combined with optical imaging. Brain Research Protocols, 1998, 3, 199-208.	1.6	36
34	GABA-induced inactivation of functionally characterized sites in cat striate cortex: Effects on orientation tuning and direction selectivity. Visual Neuroscience, 1997, 14, 141-158.	1.0	92
35	Relationship Between Lateral Inhibitory Connections and the Topography of the Orientation Map in Cat Visual Cortex. European Journal of Neuroscience, 1994, 6, 1619-1632.	2.6	117
36	Network of GABAergic large basket cells in cat visual cortex (area 18): Implication for lateral disinhibition. Journal of Comparative Neurology, 1993, 327, 398-415.	1.6	177

#	Article	IF	Citations
37	Functional and Structural Topography of Horizontal Inhibitory Connections in Cat Visual Cortex. European Journal of Neuroscience, 1993, 5, 1558-1572.	2.6	86
38	Chapter 18 GABAergic networks of basket cells in the visual cortex. Progress in Brain Research, 1992, 90, 385-405.	1.4	66