Samuel G Solomon

List of Publications by Year
in descending order

67 papers	4,767 citations	126858 33 h-index	110317 64 g-index
72 all docs	72 docs citations	72 times ranked	4130 citing authors

#	Article	IF	Citations
1	Spike sorting for large, dense electrode arrays. Nature Neuroscience, 2016, 19, 634-641.	7.1	671
2	The machinery of colour vision. Nature Reviews Neuroscience, 2007, 8, 276-286.	4.9	312
3	Profound Contrast Adaptation Early in the Visual Pathway. Neuron, 2004, 42, 155-162.	3.8	265
4	Early and Late Mechanisms of Surround Suppression in Striate Cortex of Macaque. Journal of Neuroscience, 2005, 25, 11666-11675.	1.7	245
5	Vision Guides Selection of Freeze or Flight Defense Strategies in Mice. Current Biology, 2016, 26, 2150-2154.	1.8	233
6	Extraclassical Receptive Field Properties of Parvocellular, Magnocellular, and Koniocellular Cells in the Primate Lateral Geniculate Nucleus. Journal of Neuroscience, 2002, 22, 338-349.	1.7	213
7	Moving Sensory Adaptation beyond Suppressive Effects in Single Neurons. Current Biology, 2014, 24, R1012-R1022.	1.8	197
8	Chromatic sensitivity of ganglion cells in the peripheral primate retina. Nature, 2001, 410, 933-936.	13.7	170
9	Functional Asymmetries in Visual Pathways Carrying S-Cone Signals in Macaque. Journal of Neuroscience, 2008, 28, 4078-4087.	1.7	134
10	A simpler primate brain: the visual system of the marmoset monkey. Frontiers in Neural Circuits, 2014, 8, 96.	1.4	127
11	Suppressive Surrounds and Contrast Gain in Magnocellular-Pathway Retinal Ganglion Cells of Macaque. Journal of Neuroscience, 2006, 26, 8715-8726.	1.7	116
12	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. Journal of Vision, 2009, 9, 1-1.	0.1	116
13	Spatial properties of koniocellular cells in the lateral geniculate nucleus of the marmoset Callithrix jacchus. Journal of Physiology, 2001, 533, 519-535.	1.3	111
14	Cortical-Like Receptive Fields in the Lateral Geniculate Nucleus of Marmoset Monkeys. Journal of Neuroscience, 2013, 33, 6864-6876.	1.7	109
15	Chromatic Gain Controls in Visual Cortical Neurons. Journal of Neuroscience, 2005, 25, 4779-4792.	1.7	98
16	Chromatic Organization of Ganglion Cell Receptive Fields in the Peripheral Retina. Journal of Neuroscience, 2005, 25, 4527-4539.	1.7	97
17	The Impact of Suppressive Surrounds on Chromatic Properties of Cortical Neurons. Journal of Neuroscience, 2004, 24, 148-160.	1.7	95
18	Temporal contrast sensitivity in the lateral geniculate nucleus of a New World monkey, the marmosetCallithrix jacchus. Journal of Physiology, 1999, 517, 907-917.	1.3	75

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19	Emergence of Complex Wave Patterns in Primate Cerebral Cortex. Journal of Neuroscience, 2015, 35, 4657-4662.	1.7	70
20	Interactions between color and luminance in the perception of orientation. Journal of Vision, 2003, 3, 1.	0.1	67
21	Binocular Visual Responses in the Primate Lateral Geniculate Nucleus. Current Biology, 2015, 25, 3190-3195.	1.8	63
22	fMRI adaptation revisited. Cortex, 2016, 80, 154-160.	1.1	62
23	Visual response properties of neurons in the superficial layers of the superior colliculus of awake mouse. Journal of Physiology, 2018, 596, 6307-6332.	1.3	56
24	Modulation sensitivity of ganglion cells in peripheral retina of macaque. Vision Research, 2002, 42, 2893-2898.	0.7	51
25	Habituation Reveals Fundamental Chromatic Mechanisms in Striate Cortex of Macaque. Journal of Neuroscience, 2008, 28, 1131-1139.	1.7	50
26	Integration and segregation of multiple motion signals by neurons in area MT of primate. Journal of Neurophysiology, 2014, 111, 369-378.	0.9	50
27	Combination of subcortical color channels in human visual cortex. Journal of Vision, 2010, 10, 25-25.	0.1	48
28	Adaptable Mechanisms That Regulate the Contrast Response of Neurons in the Primate Lateral Geniculate Nucleus. Journal of Neuroscience, 2009, 29, 5009-5021.	1.7	47
29	Chromatic and spatial properties of parvocellular cells in the lateral geniculate nucleus of the marmoset (Callithrix jacchus). Journal of Physiology, 2004, 557, 229-245.	1.3	46
30	Visual motion integration by neurons in the middle temporal area of a New World monkey, the marmoset. Journal of Physiology, 2011, 589, 5741-5758.	1.3	46
31	Slow intrinsic rhythm in the koniocellular visual pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14659-14663.	3.3	46
32	Striate cortex in dichromatic and trichromatic marmosets: Neurochemical compartmentalization and geniculate input. Journal of Comparative Neurology, 2002, 450, 366-381.	0.9	44
33	Local and Global Correlations between Neurons in the Middle Temporal Area of Primate Visual Cortex. Cerebral Cortex, 2015, 25, 3182-3196.	1.6	42
34	fMRI mapping of the visual system in the mouse brain with interleaved snapshot GE-EPI. NeuroImage, 2016, 139, 337-345.	2.1	38
35	Two expressions of â€œsurround suppressionâ€•in V1 that arise independent of cortical mechanisms of suppression. Visual Neuroscience, 2007, 24, 99-109.	0.5	37
36	A New Code for Contrast in the Primate Visual Pathway. Journal of Neuroscience, 2007, 27, 3904-3909.	1.7	35

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37	Linear and Nonlinear Contributions to the Visual Sensitivity of Neurons in Primate Lateral Geniculate Nucleus. Journal of Neurophysiology, 2010, 104, 1884-1898.	0.9	34
38	Receptive field asymmetries produce color-dependent direction selectivity in primate lateral geniculate nucleus. Journal of Vision, 2010, 10, 1-1.	0.1	32
39	Colour and pattern selectivity of receptive fields in superior colliculus of marmoset monkeys. Journal of Physiology, 2012, 590, 4061-4077.	1.3	32
40	Receptive Field Properties of Koniocellular On/Off Neurons in the Lateral Geniculate Nucleus of Marmoset Monkeys. Journal of Neuroscience, 2018, 38, 10384-10398.	1.7	24
41	Centre-surround effects on perceived orientation in complex images. Vision Research, 2008, 48, 1374-1382.	0.7	22
42	Visual Motion Discrimination by Propagating Patterns in Primate Cerebral Cortex. Journal of Neuroscience, 2017, 37, 10074-10084.	1.7	22
43	Integration of visual and whisker signals in rat superior colliculus. Scientific Reports, 2018, 8, 16445.	1.6	22
44	Cortical representation of color is binocular. Journal of Vision, 2008, 8, 6.	0.1	21
45	Interpreting the dimensions of neural feature representations revealed by dimensionality reduction. NeuroImage, 2018, 180, 41-67.	2.1	21
46	Creating and controlling visual environments using BonVision. ELife, 2021, 10, .	2.8	20
47	Excitatory and inhibitory contributions to receptive fields of alpha-like retinal ganglion cells in mouse. Journal of Neurophysiology, 2013, 110, 1426-1440.	0.9	19
48	Plasticity in visual cortex is disrupted in a mouse model of tauopathy. Communications Biology, 2022, 5, 77.	2.0	17
49	Spatial precision of population activity in primate area MT. Journal of Neurophysiology, 2015, 114, 869-878.	0.9	16
50	Temporal Contingencies Determine Whether Adaptation Strengthens or Weakens Normalization. Journal of Neuroscience, 2018, 38, 10129-10142.	1.7	16
51	Functional Organisation of the Mouse Superior Colliculus. Frontiers in Neural Circuits, 2022, 16, .	1.4	16
52	Adaptable mechanisms sensitive to surface color in human vision. Journal of Vision, 2010, 10, 17-17.	0.1	14
53	Relationship between cortical state and spiking activity in the lateral geniculate nucleus of marmosets. Journal of Physiology, 2017, 595, 4475-4492.	1.3	14
54	Brief Stimuli Cast a Persistent Long-Term Trace in Visual Cortex. Journal of Neuroscience, 2022, 42, 1999-2010.	1.7	14

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55	Dynamic population codes of multiplexed stimulus features in primate area MT. Journal of Neurophysiology, 2017, 118, 203-218.	0.9	11
56	LÃ©vy walk dynamics explain gamma burst patterns in primate cerebral cortex. Communications Biology, 2021, 4, 739.	2.0	11
57	Distribution of glycine receptor subunits on primate retinal ganglion cells: a quantitative analysis. European Journal of Neuroscience, 2000, 12, 4155-4170.	1.2	9
58	Retinal ganglion cells and the magnocellular, parvocellular, and koniocellular subcortical visual pathways from the eye to the brain. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 178, 31-50.	1.0	9
59	Multimodal optogenetic neural interfacing device fabricated by scalable optical fiber drawing technique. Applied Optics, 2015, 54, 10068.	2.1	8
60	Fractal spike dynamics and neuronal coupling in the primate visual system. Journal of Physiology, 2020, 598, 1551-1571.	1.3	8
61	Noise Normalizes Firing Output of Mouse Lateral Geniculate Nucleus Neurons. PLoS ONE, 2013, 8, e57961.	1.1	8
62	The impact of brief exposure to high contrast on the contrast response of neurons in primate lateral geniculate nucleus. Journal of Neurophysiology, 2011, 106, 1310-1321.	0.9	5
63	Phase sensitivities, excitatory summation fields, and silent suppressive receptive fields of single neurons in the parastriate cortex of the cat. Journal of Neurophysiology, 2011, 106, 1688-1712.	0.9	5
64	Textureâ€dependent motion signals in primate middle temporal area. Journal of Physiology, 2013, 591, 5671-5690.	1.3	5
65	The koniocellular whiteboard. Journal of Comparative Neurology, 2019, 527, 505-507.	0.9	5
66	Dynamic Contextual Modulation in Superior Colliculus of Awake Mouse. ENeuro, 2020, 7, ENEURO.0131-20.2020.	0.9	4
67	Spectral Signatures of Feedforward and Recurrent Circuitry in Monkey Area MT. Cerebral Cortex, 2017, 27, 2793-2808.	1.6	2