

Samuel G Solomon

List of Publications by Year in descending order

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67
papers

4,767
citations

126907
33
h-index

110387
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. <i>Nature Neuroscience</i> , 2016, 19, 634-641.	14.8	671
2	The machinery of colour vision. <i>Nature Reviews Neuroscience</i> , 2007, 8, 276-286.	10.2	312
3	Profound Contrast Adaptation Early in the Visual Pathway. <i>Neuron</i> , 2004, 42, 155-162.	8.1	265
4	Early and Late Mechanisms of Surround Suppression in Striate Cortex of Macaque. <i>Journal of Neuroscience</i> , 2005, 25, 11666-11675.	3.6	245
5	Vision Guides Selection of Freeze or Flight Defense Strategies in Mice. <i>Current Biology</i> , 2016, 26, 2150-2154.	3.9	233
6	Extraclassical Receptive Field Properties of Parvocellular, Magnocellular, and Koniocellular Cells in the Primate Lateral Geniculate Nucleus. <i>Journal of Neuroscience</i> , 2002, 22, 338-349.	3.6	213
7	Moving Sensory Adaptation beyond Suppressive Effects in Single Neurons. <i>Current Biology</i> , 2014, 24, R1012-R1022.	3.9	197
8	Chromatic sensitivity of ganglion cells in the peripheral primate retina. <i>Nature</i> , 2001, 410, 933-936.	27.8	170
9	Functional Asymmetries in Visual Pathways Carrying S-Cone Signals in Macaque. <i>Journal of Neuroscience</i> , 2008, 28, 4078-4087.	3.6	134
10	A simpler primate brain: the visual system of the marmoset monkey. <i>Frontiers in Neural Circuits</i> , 2014, 8, 96.	2.8	127
11	Suppressive Surrounds and Contrast Gain in Magnocellular-Pathway Retinal Ganglion Cells of Macaque. <i>Journal of Neuroscience</i> , 2006, 26, 8715-8726.	3.6	116
12	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. <i>Journal of Vision</i> , 2009, 9, 1-1.	0.3	116
13	Spatial properties of koniocellular cells in the lateral geniculate nucleus of the marmoset <i>Callithrix jacchus</i> . <i>Journal of Physiology</i> , 2001, 533, 519-535.	2.9	111
14	Cortical-Like Receptive Fields in the Lateral Geniculate Nucleus of Marmoset Monkeys. <i>Journal of Neuroscience</i> , 2013, 33, 6864-6876.	3.6	109
15	Chromatic Gain Controls in Visual Cortical Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 4779-4792.	3.6	98
16	Chromatic Organization of Ganglion Cell Receptive Fields in the Peripheral Retina. <i>Journal of Neuroscience</i> , 2005, 25, 4527-4539.	3.6	97
17	The Impact of Suppressive Surrounds on Chromatic Properties of Cortical Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 148-160.	3.6	95
18	Temporal contrast sensitivity in the lateral geniculate nucleus of a New World monkey, the marmoset <i>Callithrix jacchus</i> . <i>Journal of Physiology</i> , 1999, 517, 907-917.	2.9	75

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19	Emergence of Complex Wave Patterns in Primate Cerebral Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 4657-4662.	3.6	70
20	Interactions between color and luminance in the perception of orientation. <i>Journal of Vision</i> , 2003, 3, 1.	0.3	67
21	Binocular Visual Responses in the Primate Lateral Geniculate Nucleus. <i>Current Biology</i> , 2015, 25, 3190-3195.	3.9	63
22	fMRI adaptation revisited. <i>Cortex</i> , 2016, 80, 154-160.	2.4	62
23	Visual response properties of neurons in the superficial layers of the superior colliculus of awake mouse. <i>Journal of Physiology</i> , 2018, 596, 6307-6332.	2.9	56
24	Modulation sensitivity of ganglion cells in peripheral retina of macaque. <i>Vision Research</i> , 2002, 42, 2893-2898.	1.4	51
25	Habituation Reveals Fundamental Chromatic Mechanisms in Striate Cortex of Macaque. <i>Journal of Neuroscience</i> , 2008, 28, 1131-1139.	3.6	50
26	Integration and segregation of multiple motion signals by neurons in area MT of primate. <i>Journal of Neurophysiology</i> , 2014, 111, 369-378.	1.8	50
27	Combination of subcortical color channels in human visual cortex. <i>Journal of Vision</i> , 2010, 10, 25-25.	0.3	48
28	Adaptable Mechanisms That Regulate the Contrast Response of Neurons in the Primate Lateral Geniculate Nucleus. <i>Journal of Neuroscience</i> , 2009, 29, 5009-5021.	3.6	47
29	Chromatic and spatial properties of parvocellular cells in the lateral geniculate nucleus of the marmoset (<i>Callithrix jacchus</i>). <i>Journal of Physiology</i> , 2004, 557, 229-245.	2.9	46
30	Visual motion integration by neurons in the middle temporal area of a New World monkey, the marmoset. <i>Journal of Physiology</i> , 2011, 589, 5741-5758.	2.9	46
31	Slow intrinsic rhythm in the koniocellular visual pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14659-14663.	7.1	46
32	Striate cortex in dichromatic and trichromatic marmosets: Neurochemical compartmentalization and geniculate input. <i>Journal of Comparative Neurology</i> , 2002, 450, 366-381.	1.6	44
33	Local and Global Correlations between Neurons in the Middle Temporal Area of Primate Visual Cortex. <i>Cerebral Cortex</i> , 2015, 25, 3182-3196.	2.9	42
34	fMRI mapping of the visual system in the mouse brain with interleaved snapshot GE-EPI. <i>NeuroImage</i> , 2016, 139, 337-345.	4.2	38
35	Two expressions of "surround suppression" in V1 that arise independent of cortical mechanisms of suppression. <i>Visual Neuroscience</i> , 2007, 24, 99-109.	1.0	37
36	A New Code for Contrast in the Primate Visual Pathway. <i>Journal of Neuroscience</i> , 2007, 27, 3904-3909.	3.6	35

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37	Linear and Nonlinear Contributions to the Visual Sensitivity of Neurons in Primate Lateral Geniculate Nucleus. <i>Journal of Neurophysiology</i> , 2010, 104, 1884-1898.	1.8	34
38	Receptive field asymmetries produce color-dependent direction selectivity in primate lateral geniculate nucleus. <i>Journal of Vision</i> , 2010, 10, 1-1.	0.3	32
39	Colour and pattern selectivity of receptive fields in superior colliculus of marmoset monkeys. <i>Journal of Physiology</i> , 2012, 590, 4061-4077.	2.9	32
40	Receptive Field Properties of Koniocellular On/Off Neurons in the Lateral Geniculate Nucleus of Marmoset Monkeys. <i>Journal of Neuroscience</i> , 2018, 38, 10384-10398.	3.6	24
41	Centre-surround effects on perceived orientation in complex images. <i>Vision Research</i> , 2008, 48, 1374-1382.	1.4	22
42	Visual Motion Discrimination by Propagating Patterns in Primate Cerebral Cortex. <i>Journal of Neuroscience</i> , 2017, 37, 10074-10084.	3.6	22
43	Integration of visual and whisker signals in rat superior colliculus. <i>Scientific Reports</i> , 2018, 8, 16445.	3.3	22
44	Cortical representation of color is binocular. <i>Journal of Vision</i> , 2008, 8, 6.	0.3	21
45	Interpreting the dimensions of neural feature representations revealed by dimensionality reduction. <i>NeuroImage</i> , 2018, 180, 41-67.	4.2	21
46	Creating and controlling visual environments using BonVision. <i>ELife</i> , 2021, 10, .	6.0	20
47	Excitatory and inhibitory contributions to receptive fields of alpha-like retinal ganglion cells in mouse. <i>Journal of Neurophysiology</i> , 2013, 110, 1426-1440.	1.8	19
48	Plasticity in visual cortex is disrupted in a mouse model of tauopathy. <i>Communications Biology</i> , 2022, 5, 77.	4.4	17
49	Spatial precision of population activity in primate area MT. <i>Journal of Neurophysiology</i> , 2015, 114, 869-878.	1.8	16
50	Temporal Contingencies Determine Whether Adaptation Strengthens or Weakens Normalization. <i>Journal of Neuroscience</i> , 2018, 38, 10129-10142.	3.6	16
51	Functional Organisation of the Mouse Superior Colliculus. <i>Frontiers in Neural Circuits</i> , 2022, 16, .	2.8	16
52	Adaptable mechanisms sensitive to surface color in human vision. <i>Journal of Vision</i> , 2010, 10, 17-17.	0.3	14
53	Relationship between cortical state and spiking activity in the lateral geniculate nucleus of marmosets. <i>Journal of Physiology</i> , 2017, 595, 4475-4492.	2.9	14
54	Brief Stimuli Cast a Persistent Long-Term Trace in Visual Cortex. <i>Journal of Neuroscience</i> , 2022, 42, 1999-2010.	3.6	14

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55	Dynamic population codes of multiplexed stimulus features in primate area MT. Journal of Neurophysiology, 2017, 118, 203-218.	1.8	11
56	LÃ©vy walk dynamics explain gamma burst patterns in primate cerebral cortex. Communications Biology, 2021, 4, 739.	4.4	11
57	Distribution of glycine receptor subunits on primate retinal ganglion cells: a quantitative analysis. European Journal of Neuroscience, 2000, 12, 4155-4170.	2.6	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.	1.8	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.	2.9	8
61	Noise Normalizes Firing Output of Mouse Lateral Geniculate Nucleus Neurons. PLoS ONE, 2013, 8, e57961.	2.5	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.	1.8	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.	1.8	5
64	Textureâ€¢dependent motion signals in primate middle temporal area. Journal of Physiology, 2013, 591, 5671-5690.	2.9	5
65	The koniocellular whiteboard. Journal of Comparative Neurology, 2019, 527, 505-507.	1.6	5
66	Dynamic Contextual Modulation in Superior Colliculus of Awake Mouse. ENeuro, 2020, 7, ENEURO.0131-20.2020.	1.9	4
67	Spectral Signatures of Feedforward and Recurrent Circuitry in Monkey Area MT. Cerebral Cortex, 2017, 27, 2793-2808.	2.9	2