Peter Lennie

List of Publications by Year in descending order

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45 papers	6,093 citations	159585 30 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	3824 citing authors

#	Article	IF	Citations
1	The Cost of Cortical Computation. Current Biology, 2003, 13, 493-497.	3.9	844
2	Coding of image contrast in central visual pathways of the macaque monkey. Vision Research, 1990, 30, 1-10.	1.4	602
3	Parallel visual pathways: A review. Vision Research, 1980, 20, 561-594.	1.4	499
4	Rapid Adaptation in Visual Cortex to the Structure of Images. Science, 1999, 285, 1405-1408.	12.6	418
5	Pattern-selective adaptation in visual cortical neurones. Nature, 1979, 278, 850-852.	27.8	415
6	Single Units and Visual Cortical Organization. Perception, 1998, 27, 889-935.	1.2	343
7	The machinery of colour vision. Nature Reviews Neuroscience, 2007, 8, 276-286.	10.2	312
8	Profound Contrast Adaptation Early in the Visual Pathway. Neuron, 2004, 42, 155-162.	8.1	265
9	Early and Late Mechanisms of Surround Suppression in Striate Cortex of Macaque. Journal of Neuroscience, 2005, 25, 11666-11675.	3.6	245
10	Packing arrangement of the three cone classes in primate retina. Vision Research, 2001, 41, 1291-1306.	1.4	225
11	Contrast adaptation in striate cortex of macaque. Vision Research, 1989, 29, 747-755.	1.4	219
12	Luminance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 1283.	1.5	204
13	Functional Asymmetries in Visual Pathways Carrying S-Cone Signals in Macaque. Journal of Neuroscience, 2008, 28, 4078-4087.	3.6	134
14	Coding of color and form in the geniculostriate visual pathway (invited review). Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2013.	1.5	132
15	Information Conveyed by Onset Transients in Responses of Striate Cortical Neurons. Journal of Neuroscience, 2001, 21, 6978-6990.	3.6	117
16	Chromatic Gain Controls in Visual Cortical Neurons. Journal of Neuroscience, 2005, 25, 4779-4792.	3.6	98
17	Chromatic adaptation to natural and incandescent illuminants. Vision Research, 1992, 32, 2077-2085.	1.4	97
18	The Impact of Suppressive Surrounds on Chromatic Properties of Cortical Neurons. Journal of Neuroscience, 2004, 24, 148-160.	3.6	95

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19	Recent developments in the physiology of color vision. Trends in Neurosciences, 1984, 7, 243-248.	8.6	84
20	Mechanisms Underlying Segmentation of Colored Textures. Vision Research, 1997, 37, 83-97.	1.4	68
21	Red-green blindness confined to one eye. Vision Research, 1976, 16, 691-702.	1.4	58
22	Habituation Reveals Fundamental Chromatic Mechanisms in Striate Cortex of Macaque. Journal of Neuroscience, 2008, 28, 1131-1139.	3.6	50
23	Multiple Adaptable Mechanisms Early in the Primate Visual Pathway. Journal of Neuroscience, 2011, 31, 15016-15025.	3.6	48
24	Fine Structure of Parvocellular Receptive Fields in the Primate Fovea Revealed by Laser Interferometry. Journal of Neuroscience, 2000, 20, 2043-2053.	3.6	47
25	Ganglion cell pathways for rod vision. Vision Research, 1994, 34, 477-482.	1.4	44
26	Local Signals From Beyond the Receptive Fields of Striate Cortical Neurons. Journal of Neurophysiology, 2003, 90, 822-831.	1.8	41
27	Distinctive characteristics of subclasses of redâ€“green P-cells in LGN of macaque. Visual Neuroscience, 1998, 15, 37-46.	1.0	35
28	A New Code for Contrast in the Primate Visual Pathway. Journal of Neuroscience, 2007, 27, 3904-3909.	3.6	35
29	Head orientation and meridional variations in acuity. Vision Research, 1974, 14, 107-111.	1.4	34
30	Temporal-chromatic interactions in LGN P-cells. Visual Neuroscience, 1998, 15, 47-54.	1.0	34
31	Color vision: Putting it together. Current Biology, 2000, 10, R589-R591.	3.9	28
32	Spatio-temporal requirements for binocular correlation in stereopsis. Vision Research, 1996, 36, 527-538.	1.4	24
33	Distortions of Perceived Orientation. Nature: New Biology, 1971, 233, 155-156.	4.5	23
34	Transmission of spatial information in S-cone pathways. Visual Neuroscience, 2001, 18, 961-972.	1.0	23
35	Binocular integration of partially occluded surfaces. Vision Research, 2002, 42, 1225-1235.	1.4	23
36	Cortical representation of color is binocular. Journal of Vision, 2008, 8, 6.	0.3	21

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37	Scotopic increment thresholds in retinal ganglion cells. Vision Research, 1979, 19, 425-430.	1.4	19
38	Importance of color in the segmentation of variegated surfaces. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1240.	1.5	18
39	The Physiology of Color Vision. , 2003, , 217-246.		16
40	Residual eye-movements in macaque and their effects on visual responses of neurons. Visual Neuroscience, 2002, 19, 31-38.	1.0	15
41	Receptive fields. Current Biology, 2003, 13, R216-R219.	3.9	11
42	Nonlinear Signal Summation in Magnocellular Neurons of the Macaque Lateral Geniculate Nucleus. Journal of Neurophysiology, 2009, 102, 1921-1929.	1.8	9
43	Temporal modulation sensitivities of red- and green-sensitive cone systems in dichromats. Vision Research, 1984, 24, 1995-1999.	1.4	8
44	Neuroanatomy of visual acuity. Nature, 1977, 266, 496-496.	27.8	7
45	Adaptation and counteradaptation to complex optical distortion. Perception & Psychophysics, 1972, 12, 273-277.	2.3	6