

Barry B Lee

List of Publications by Year in descending order

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66
papers

3,927
citations

186265

28
h-index

155660

55
g-index

66
all docs

66
docs citations

66
times ranked

1741
citing authors

#	ARTICLE	IF	CITATIONS
1	The 'blue-on' opponent pathway in primate retina originates from a distinct bistratified ganglion cell type. <i>Nature</i> , 1994, 367, 731-735.	27.8	658
2	Luminance and chromatic modulation sensitivity of macaque ganglion cells and human observers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990, 7, 2223.	1.5	432
3	Receptive field structure in the primate retina. <i>Vision Research</i> , 1996, 36, 631-644.	1.4	189
4	Chromatic sensitivity of ganglion cells in the peripheral primate retina. <i>Nature</i> , 2001, 410, 933-936.	27.8	170
5	Responses to pulses and sinusoids in macaque ganglion cells. <i>Vision Research</i> , 1994, 34, 3081-3096.	1.4	157
6	Rod inputs to macaque ganglion cells. <i>Vision Research</i> , 1997, 37, 2813-2828.	1.4	137
7	Topography of ganglion cells and photoreceptors in the retina of a New World monkey: The marmoset <i>Callithrix jacchus</i> . <i>Visual Neuroscience</i> , 1996, 13, 335-352.	1.0	132
8	Retinal connectivity and primate vision. <i>Progress in Retinal and Eye Research</i> , 2010, 29, 622-639.	15.5	126
9	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
10	Responses of macaque ganglion cells and human observers to compound periodic waveforms. <i>Vision Research</i> , 1993, 33, 1997-2011.	1.4	114
11	Specificity of Cone Inputs to Macaque Retinal Ganglion Cells. <i>Journal of Neurophysiology</i> , 2006, 95, 837-849.	1.8	109
12	Receptive fields of primate retinal ganglion cells studied with a novel technique. <i>Visual Neuroscience</i> , 1998, 15, 161-175.	1.0	105
13	An examination of physiological mechanisms underlying the frequency-doubling illusion. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 3590-9.	3.3	100
14	Chromatic Organization of Ganglion Cell Receptive Fields in the Peripheral Retina. <i>Journal of Neuroscience</i> , 2005, 25, 4527-4539.	3.6	97
15	The time course of adaptation in macaque retinal ganglion cells. <i>Vision Research</i> , 1996, 36, 913-931.	1.4	85
16	Responses of Primate Retinal Ganglion Cells to Perimetric Stimuli. , 2011, 52, 764.		84
17	The temporal properties of the response of macaque ganglion cells and central mechanisms of flicker detection. <i>Journal of Vision</i> , 2007, 7, 1.	0.3	73
18	Visual pathways and psychophysical channels in the primate. <i>Journal of Physiology</i> , 2011, 589, 41-47.	2.9	72

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19	Morphology and physiology of primate M- and P-cells. <i>Progress in Brain Research</i> , 2004, 144, 21-46.	1.4	69
20	Primate Horizontal Cell Dynamics: An Analysis of Sensitivity Regulation in the Outer Retina. <i>Journal of Neurophysiology</i> , 2001, 85, 545-558.	1.8	66
21	The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers. <i>Vision Research</i> , 1995, 35, 2743-2758.	1.4	64
22	Ganglion cells of a short-wavelength-sensitive cone pathway in New World monkeys: Morphology and physiology. <i>Visual Neuroscience</i> , 1999, 16, 333-343.	1.0	60
23	Modulation sensitivity of ganglion cells in peripheral retina of macaque. <i>Vision Research</i> , 2002, 42, 2893-2898.	1.4	51
24	Paths to colour in the retina. <i>Australasian journal of optometry, The</i> , 2004, 87, 239-248.	1.3	45
25	Spatial distributions of cone inputs to cells of the parvocellular pathway investigated with cone-isolating gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, A223.	1.5	44
26	Visual responses of ganglion cells of a New World primate, the capuchin monkey, <i>Cebus apella</i> . <i>Journal of Physiology</i> , 2000, 528, 573-590.	2.9	43
27	The spatiotemporal precision of ganglion cell signals: a comparison of physiological and psychophysical performance with moving gratings. <i>Vision Research</i> , 2004, 44, 19-33.	1.4	42
28	Sequential processing in vision: The interaction of sensitivity regulation and temporal dynamics. <i>Vision Research</i> , 2008, 48, 2649-2656.	1.4	36
29	Dynamics of sensitivity regulation in primate outer retina: The horizontal cell network. <i>Journal of Vision</i> , 2003, 3, 5.	0.3	33
30	Distribution and specificity of S-cone (blue cone) signals in subcortical visual pathways. <i>Visual Neuroscience</i> , 2014, 31, 177-187.	1.0	31
31	Do magnocellular and parvocellular ganglion cells avoid short-wavelength cone input?. <i>Visual Neuroscience</i> , 2006, 23, 441-446.	1.0	28
32	The chromatic input to cells of the magnocellular pathway of primates. <i>Journal of Vision</i> , 2009, 9, 15-15.	0.3	27
33	Mixing of Chromatic and Luminance Retinal Signals in Primate Area V1. <i>Cerebral Cortex</i> , 2015, 25, 1920-1937.	2.9	27
34	Segregation of chromatic and luminance signals using a novel grating stimulus. <i>Journal of Physiology</i> , 2011, 589, 59-73.	2.9	26
35	Simultaneous chromatic and luminance human electroretinogram responses. <i>Journal of Physiology</i> , 2012, 590, 3141-3154.	2.9	26
36	Transient cells can be neurometrically sustained: the positional accuracy of retinal signals to moving targets. <i>Journal of Vision</i> , 2002, 2, 3-3.	0.3	23

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37	Chromatic temporal integration and retinal eccentricity: Psychophysics, neurometric analysis and cortical pooling. <i>Vision Research</i> , 2008, 48, 2657-2662.	1.4	22
38	Psychophysical and physiological responses to gratings with luminance and chromatic components of different spatial frequencies. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, A314.	1.5	19
39	Color coding in the primate visual pathway: a historical view. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A103.	1.5	16
40	Eye Movements and the Neural Basis of Context Effects on Visual Sensitivity. <i>Journal of Neuroscience</i> , 2014, 34, 8119-8129.	3.6	13
41	Comparative Anatomy and Physiology of the Primate Retina. , 2006, , 127-160.		12
42	Neural models and physiological reality. <i>Visual Neuroscience</i> , 2008, 25, 231-241.	1.0	12
43	Dependence of chromatic responses in V1 on visual field eccentricity and spatial frequency: an fMRI study. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, A53.	1.5	12
44	Chromatic and luminance contributions to a hyperacuity task. <i>Vision Research</i> , 2000, 40, 817-832.	1.4	11
45	Lichtenberg's Letter to Goethe on "Farbigige Schatten": G. C. Lichtenberg. <i>Color Research and Application</i> , 2002, 27, 300-303.	1.6	11
46	Chromatic input to cells of the magnocellular pathway: Mean chromaticity and the relative phase of modulated lights. <i>Visual Neuroscience</i> , 2004, 21, 309-314.	1.0	10
47	Alouatta Trichromatic Color Vision: Cone Spectra and Physiological Responses Studied with Microspectrophotometry and Single Unit Retinal Electrophysiology. <i>PLoS ONE</i> , 2014, 9, e113321.	2.5	10
48	On the Relation between Cellular Sensitivity and Psychophysical Detection. , 1991, , 105-115.		9
49	A single mechanism for both luminance and chromatic grating vernier tasks: Evidence from temporal summation. <i>Visual Neuroscience</i> , 2004, 21, 315-320.	1.0	8
50	Macaque retinal ganglion cell responses to visual patterns: harmonic composition, noise, and psychophysical detectability. <i>Journal of Neurophysiology</i> , 2016, 115, 2976-2988.	1.8	7
51	The spatial structure of cone-opponent receptive fields in macaque retina. <i>Vision Research</i> , 2018, 151, 141-151.	1.4	7
52	A quantitative description of macaque ganglion cell responses to natural scenes: the interplay of time and space. <i>Journal of Physiology</i> , 2021, 599, 3169-3193.	2.9	7
53	Coding of Position of Achromatic and Chromatic Edges by Retinal Ganglion Cells. , 2003, , 79-88.		7
54	The evolution of concepts of color vision. <i>Neurociências</i> , 2008, 4, 209-224.	0.0	7

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55	Comparison of Ganglion Cell Signals and Psychophysical Localization of Moving Targets Can Help Define Central Motion Mechanisms. <i>Perception</i> , 2005, 34, 975-981.	1.2	6
56	Luminance and chromatic contributions to a hyperacuity task: Isolation by contrast polarity and target separation. <i>Vision Research</i> , 2012, 56, 28-37.	1.4	6
57	Sensitivity to chromatic and luminance contrast and its neuronal substrates. <i>Current Opinion in Behavioral Sciences</i> , 2019, 30, 156-162.	3.9	6
58	Author Response: Frequency-Doubling Technology and Parasol Cells. , 2011, 52, 3759.		5
59	Structure of Receptive Field Centers of Midget Retinal Ganglion Cells. , 2003, , 63-70.		3
60	Colour science in Göttingen in the 18th Century. <i>Color Research and Application</i> , 2001, 26, S25-S27.	1.6	1
61	Independence and interaction of luminance and chromatic contributions to spatial hyperacuity performance. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A394.	1.5	1
62	Cone Opponency: An Efficient Way of Transmitting Chromatic Information. , 2016, , 105-132.		1
63	Detection and discrimination of achromatic contrast: A ganglion cell perspective. <i>Journal of Vision</i> , 2022, 22, 11.	0.3	1
64	Chromatic adaptation in red-green cone-opponent retinal ganglion cells of the macaque. <i>Vision Research</i> , 2008, 48, 2625-2632.	1.4	0
65	Guest Editors' Foreword: Proceedings of the 19th Biennial Symposium of the International Colour Vision Society. Held July 2007 Belém, Brazil. <i>Visual Neuroscience</i> , 2008, 25, 229-230.	1.0	0
66	Macaque ganglion cell responses to probe stimuli on modulated backgrounds. <i>Journal of Vision</i> , 2010, 10, 26-26.	0.3	0