

Jay Neitz

List of Publications by Year in descending order

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122
papers

7,489
citations

61857

43
h-index

60497

81
g-index

129
all docs

129
docs citations

129
times ranked

4167
citing authors

#	ARTICLE	IF	CITATIONS
1	Organization of the Human Trichromatic Cone Mosaic. <i>Journal of Neuroscience</i> , 2005, 25, 9669-9679.	1.7	446
2	Retinal receptors in rodents maximally sensitive to ultraviolet light. <i>Nature</i> , 1991, 353, 655-656.	13.7	380
3	Functional magnetic resonance imaging (fMRI) of the human brain. <i>Journal of Neuroscience Methods</i> , 1994, 54, 171-187.	1.3	375
4	Trichromatic colour vision in New World monkeys. <i>Nature</i> , 1996, 382, 156-158.	13.7	316
5	Gene therapy for red-green colour blindness in adult primates. <i>Nature</i> , 2009, 461, 784-787.	13.7	282
6	The genetics of normal and defective color vision. <i>Vision Research</i> , 2011, 51, 633-651.	0.7	278
7	Functional photoreceptor loss revealed with adaptive optics: An alternate cause of color blindness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8461-8466.	3.3	267
8	Color Perception Is Mediated by a Plastic Neural Mechanism that Is Adjustable in Adults. <i>Neuron</i> , 2002, 35, 783-792.	3.8	260
9	Polymorphism of the long-wavelength cone in normal human colour vision. <i>Nature</i> , 1986, 323, 623-625.	13.7	244
10	Local cellular sources of apolipoprotein E in the human retina and retinal pigmented epithelium: implications for the process of drusen formation. <i>American Journal of Ophthalmology</i> , 2001, 131, 767-781.	1.7	229
11	Functional consequences of the relative numbers of L and M cones. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 607.	0.8	203
12	More than three different cone pigments among people with normal color vision. <i>Vision Research</i> , 1993, 33, 117-122.	0.7	193
13	Photopigments and color vision in the nocturnal monkey, <i>Aotus</i> . <i>Vision Research</i> , 1993, 33, 1773-1783.	0.7	168
14	Color vision in the dog. <i>Visual Neuroscience</i> , 1989, 3, 119-125.	0.5	152
15	Estimates of L:M cone ratio from ERG flicker photometry and genetics. <i>Journal of Vision</i> , 2002, 2, 1-1.	0.1	133
16	Polymorphism in normal human color vision and its mechanism. <i>Vision Research</i> , 1990, 30, 621-636.	0.7	127
17	Effects of Long-Wavelength Lighting on Refractive Development in Infant Rhesus Monkeys. , 2015, 56, 6490.		105
18	Photopigment basis for dichromatic color vision in cows, goats, and sheep. <i>Visual Neuroscience</i> , 1998, 15, 581-4.	0.5	104

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19	Variations in cone populations for red-green color vision examined by analysis of mRNA. <i>NeuroReport</i> , 1998, 9, 1963-1967.	0.6	101
20	Electroretinogram flicker photometry and its applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 641.	0.8	99
21	Macular Phototoxicity Caused by Fiberoptic Endoillumination During Pars Plana Vitrectomy. <i>American Journal of Ophthalmology</i> , 1992, 114, 287-296.	1.7	94
22	The Effect of Cone Opsin Mutations on Retinal Structure and the Integrity of the Photoreceptor Mosaic. <i>Invest. Ophthalmol. Vis. Sci.</i> , 2012, 53, 8006.		85
23	Color vision polymorphism and its photopigment basis in a callitrichid monkey (<i>Saguinus fuscicollis</i>). <i>Vision Research</i> , 1987, 27, 2089-2100.	0.7	82
24	Flicker-photometric electroretinogram estimates of L:M cone photoreceptor ratio in men with photopigment spectra derived from genetics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 499.	0.8	82
25	Genetic basis of polymorphism in the color vision of platyrrhine monkeys. <i>Vision Research</i> , 1993, 33, 269-274.	0.7	77
26	Trichromatic color vision with only two spectrally distinct photopigments. <i>Nature Neuroscience</i> , 1999, 2, 884-888.	7.1	74
27	Transplantation of Human Embryonic Stem Cell-Derived Retinal Cells into the Subretinal Space of a Non-Human Primate. <i>Translational Vision Science and Technology</i> , 2017, 6, 4.	1.1	72
28	Polymorphism of the middle wavelength cone in two species of south american monkey: <i>Cebus apella</i> and <i>Callicebus moloch</i> . <i>Vision Research</i> , 1987, 27, 1263-1268.	0.7	66
29	Analysis of fusion gene and encoded photopigment of colour-blind humans. <i>Nature</i> , 1989, 342, 679-682.	13.7	65
30	Cone photoreceptor mosaic disruption associated with Cys203Arg mutation in the M-cone opsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20948-20953.	3.3	65
31	Recent evolution of uniform trichromacy in a New World monkey. <i>Vision Research</i> , 1998, 38, 3315-3320.	0.7	64
32	Variety of genotypes in males diagnosed as dichromatic on a conventional clinical anomaloscope. <i>Visual Neuroscience</i> , 2004, 21, 205-216.	0.5	64
33	Genetic basis of photopigment variations in human dichromats. <i>Vision Research</i> , 1995, 35, 2095-2103.	0.7	63
34	Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision. <i>Vision Research</i> , 1995, 35, 2395-2407.	0.7	60
35	Spectral mechanisms and color vision in the tree shrew (<i>Tupaia belangeri</i>). <i>Vision Research</i> , 1986, 26, 291-298.	0.7	57
36	Color vision in squirrel monkeys: Sex-related differences suggest the mode of inheritance. <i>Vision Research</i> , 1985, 25, 141-143.	0.7	56

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37	Evaluation of an updated HRR color vision test. <i>Visual Neuroscience</i> , 2004, 21, 431-436.	0.5	56
38	Deletion of the X-linked opsin gene array locus control region (LCR) results in disruption of the cone mosaic. <i>Vision Research</i> , 2010, 50, 1989-1999.	0.7	56
39	Spectral sensitivity of cones in an ungulate. <i>Visual Neuroscience</i> , 1989, 2, 97-100.	0.5	55
40	Modeling of region-specific fMRI BOLD neurovascular response functions in rat brain reveals residual differences that correlate with the differences in regional evoked potentials. <i>NeuroImage</i> , 2008, 41, 525-534.	2.1	52
41	A Color Vision Circuit for Non-Image-Forming Vision in the Primate Retina. <i>Current Biology</i> , 2020, 30, 1269-1274.e2.	1.8	50
42	Cone pigment gene expression in individual photoreceptors and the chromatic topography of the retina. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 527.	0.8	48
43	Early color deprivation and subsequent color vision in a dichromatic monkey. <i>Vision Research</i> , 1987, 27, 2009-2013.	0.7	47
44	L-cone pigment genes expressed in normal colour vision. <i>Vision Research</i> , 1998, 38, 3213-3219.	0.7	47
45	A study of unusual Rayleigh matches in deutan deficiency. <i>Visual Neuroscience</i> , 2008, 25, 507-516.	0.5	47
46	Evolution of the circuitry for conscious color vision in primates. <i>Eye</i> , 2017, 31, 286-300.	1.1	47
47	A new mass screening test for color-vision deficiencies in children. <i>Color Research and Application</i> , 2001, 26, S239-S249.	0.8	45
48	Broad Thorny Ganglion Cells: A Candidate for Visual Pursuit Error Signaling in the Primate Retina. <i>Journal of Neuroscience</i> , 2015, 35, 5397-5408.	1.7	44
49	Color Vision: Almost Reason Enough for Having Eyes. <i>Optics and Photonics News</i> , 2001, 12, 26.	0.4	43
50	Changes in the colour of light cue circadian activity. <i>Animal Behaviour</i> , 2012, 83, 1143-1151.	0.8	41
51	Spectral sensitivity of ground squirrel cones measured with ERG flicker photometry. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1985, 156, 503-509.	0.7	40
52	Neurobiological hypothesis of color appearance and hue perception. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A195.	0.8	39
53	Relating color discrimination to photopigment genes in deutan observers. <i>Vision Research</i> , 1998, 38, 3371-3376.	0.7	37
54	Cone Photoreceptor Structure in Patients With X-Linked Cone Dysfunction and Red-Green Color Vision Deficiency. , 2016, 57, 3853.		36

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55	Role of a Dual Splicing and Amino Acid Code in Myopia, Cone Dysfunction and Cone Dystrophy Associated with <i>L</i> / <i>M</i> Opsin Interchange Mutations. <i>Translational Vision Science and Technology</i> , 2017, 6, 2.	1.1	35
56	Spectral mechanisms in the tree squirrel retina. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1988, 162, 773-780.	0.7	34
57	Spectra of human L cones. <i>Vision Research</i> , 1998, 38, 3663-3670.	0.7	33
58	The uncommon retina of the common house mouse. <i>Trends in Neurosciences</i> , 2001, 24, 248-249.	4.2	32
59	Characterization of a novel form of X-linked incomplete achromatopsia. <i>Visual Neuroscience</i> , 2004, 21, 197-203.	0.5	32
60	Genetic Testing as a New Standard for Clinical Diagnosis of Color Vision Deficiencies. <i>Translational Vision Science and Technology</i> , 2016, 5, 2.	1.1	31
61	Residual Cone Structure in Patients With X-Linked Cone Opsin Mutations. , 2018, 59, 4238.		29
62	Sensations from a single M-cone depend on the activity of surrounding S-cones. <i>Scientific Reports</i> , 2018, 8, 8561.	1.6	29
63	Expression of L cone pigment gene subtypes in females. <i>Vision Research</i> , 1998, 38, 3221-3225.	0.7	28
64	Action spectrum of the retinal mechanism mediating nocturnal light-induced suppression of rat pineal gland N-acetyltransferase. <i>Brain Research</i> , 1987, 406, 352-356.	1.1	27
65	Reconciling Color Vision Models With Midget Ganglion Cell Receptive Fields. <i>Frontiers in Neuroscience</i> , 2019, 13, 865.	1.4	27
66	A novel mutation in the short-wavelength-sensitive cone pigment gene associated with a tritan color vision defect. <i>Visual Neuroscience</i> , 2006, 23, 403-409.	0.5	26
67	Recombinant adeno-associated virus targets passenger gene expression to cones in primate retina. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1411.	0.8	26
68	Color-deficient cone mosaics associated with Xq28 opsin mutations: A stop codon versus gene deletions. <i>Vision Research</i> , 2010, 50, 2396-2402.	0.7	26
69	Synaptic Elements for GABAergic Feed-Forward Signaling between HII Horizontal Cells and Blue Cone Bipolar Cells Are Enriched beneath Primate S-Cones. <i>PLoS ONE</i> , 2014, 9, e88963.	1.1	26
70	An S-cone circuit for edge detection in the primate retina. <i>Scientific Reports</i> , 2019, 9, 11913.	1.6	26
71	The association between L:M cone ratio, cone opsin genes and myopia susceptibility. <i>Vision Research</i> , 2019, 162, 20-28.	0.7	26
72	Distinctive receptive field and physiological properties of a wide-field amacrine cell in the macaque monkey retina. <i>Journal of Neurophysiology</i> , 2015, 114, 1606-1616.	0.9	25

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73	An adaptation of the Cambridge Colour Test for use with animals. <i>Visual Neuroscience</i> , 2006, 23, 695-701.	0.5	24
74	Spectral Tuning of Ultraviolet Cone Pigments: An Interhelical Lock Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 19064-19067.	6.6	24
75	Curing Color Blindness—Mice and Nonhuman Primates. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014, 4, a017418-a017418.	2.9	24
76	Topography of the long- to middle-wavelength sensitive cone ratio in the human retina assessed with a wide-field color multifocal electroretinogram. <i>Visual Neuroscience</i> , 2008, 25, 301-306.	0.5	23
77	The L:M cone ratio in males of African descent with normal color vision. <i>Journal of Vision</i> , 2008, 8, 5.	0.1	23
78	Molecular genetic detection of female carriers of protan defects. <i>Vision Research</i> , 1998, 38, 3365-3369.	0.7	21
79	Colour Vision: The Wonder of Hue. <i>Current Biology</i> , 2008, 18, R700-R702.	1.8	20
80	Topography of long- and middle-wavelength sensitive cone opsin gene expression in human and Old World monkey retina. <i>Visual Neuroscience</i> , 2006, 23, 379-385.	0.5	19
81	S-opsin knockout mice with the endogenous M-opsin gene replaced by an L-opsin variant. <i>Visual Neuroscience</i> , 2014, 31, 25-37.	0.5	19
82	Geographic mapping of choroidal thickness in myopic eyes using 1050-nm spectral domain optical coherence tomography. <i>Journal of Innovative Optical Health Sciences</i> , 2015, 08, 1550012.	0.5	19
83	Revealing How Color Vision Phenotype and Genotype Manifest in Individual Cone Cells. , 2021, 62, 8.		19
84	An urn model of the development of L/M cone ratios in human and macaque retinas. <i>Visual Neuroscience</i> , 2006, 23, 387-394.	0.5	17
85	Another Blue-ON ganglion cell in the primate retina. <i>Current Biology</i> , 2020, 30, R1409-R1410.	1.8	17
86	Circuitry to explain how the relative number of L and M cones shapes color experience. <i>Journal of Vision</i> , 2016, 16, 18.	0.1	15
87	Intermixing the OPN1LW and OPN1MW Genes Disrupts the Exonic Splicing Code Causing an Array of Vision Disorders. <i>Genes</i> , 2021, 12, 1180.	1.0	15
88	Tunicamycin-induced degeneration in cone photoreceptors. <i>Visual Neuroscience</i> , 1988, 1, 153-158.	0.5	14
89	Conserved circuits for direction selectivity in the primate retina. <i>Current Biology</i> , 2022, 32, 2529-2538.e4.	1.8	14
90	Evaluating the human X-chromosome pigment gene promoter sequences as predictors of L:M cone ratio variation. <i>Journal of Vision</i> , 2004, 4, 7.	0.1	13

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91	Nucleotide polymorphisms upstream of the X-chromosome opsin gene array tune L:M cone ratio. <i>Visual Neuroscience</i> , 2008, 25, 265-271.	0.5	13
92	Photopigment genes, cones, and color update: disrupting the splicing code causes a diverse array of vision disorders. <i>Current Opinion in Behavioral Sciences</i> , 2019, 30, 60-66.	2.0	13
93	The importance of deleterious mutations of M pigment genes as a cause of color vision defects. <i>Color Research and Application</i> , 2001, 26, S100-S105.	0.8	12
94	Topographical cone photopigment gene expression in deutan-type red-green color vision defects. <i>Vision Research</i> , 2004, 44, 135-145.	0.7	12
95	Synaptic inputs from identified bipolar and amacrine cells to a sparsely branched ganglion cell in rabbit retina. <i>Visual Neuroscience</i> , 2019, 36, E004.	0.5	12
96	Effect of cone spectral topography on chromatic detection sensitivity. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, A244.	0.8	12
97	Spectral sensitivity of vervet monkeys (<i>Cercopithecus aethiops sabaues</i>) and the issue of catarrhine trichromacy. <i>American Journal of Primatology</i> , 1991, 23, 185-195.	0.8	11
98	Wide-field amacrine cell inputs to ON parasol ganglion cells in macaque retina. <i>Journal of Comparative Neurology</i> , 2020, 528, 1588-1598.	0.9	11
99	Restoring Color Perception to the Blind. <i>Ophthalmology</i> , 2021, 128, 453-462.	2.5	11
100	Cone-isolating ON-OFF electroretinogram for studying chromatic pathways in the retina. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A208.	0.8	10
101	A Multi-Stage Color Model Revisited: Implications for a Gene Therapy Cure for Red-Green Colorblindness. <i>Advances in Experimental Medicine and Biology</i> , 2010, 664, 631-638.	0.8	10
102	Specialized synaptic pathway for chromatic signals beneath S-cone photoreceptors is common to human, Old and New World primates. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, A189.	0.8	9
103	Longitudinal evaluation of expression of virally delivered transgenes in gerbil cone photoreceptors. <i>Visual Neuroscience</i> , 2008, 25, 273-282.	0.5	8
104	Synaptic inputs to broad thorny ganglion cells in macaque retina. <i>Journal of Comparative Neurology</i> , 2021, 529, 3098-3111.	0.9	8
105	Insight from OPN1LW Gene Haplotypes into the Cause and Prevention of Myopia. <i>Genes</i> , 2022, 13, 942.	1.0	8
106	Pigment gene expression in protan color vision defects. <i>Vision Research</i> , 1998, 38, 3359-3364.	0.7	7
107	Potential value of color vision aids for varying degrees of color vision deficiency. <i>Optics Express</i> , 2022, 30, 8857.	1.7	6
108	Correlated Evolution of Short Wavelength Sensitive Photoreceptor Sensitivity and Color Pattern in Lake Malawi Cichlids. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	1.1	4

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109	Comparing Retinal Structure in Patients with Achromatopsia and Blue Cone Monochromacy Using OCT. <i>Ophthalmology Science</i> , 2021, 1, 100047.	1.0	4
110	New Genetic Technology May Help Pilots, Aviation Employees, and Color Vision Researchers. <i>Aviation, Space, and Environmental Medicine</i> , 2013, 84, 1218-1220.	0.6	3
111	S-cone circuits in the primate retina for non-image-forming vision. <i>Seminars in Cell and Developmental Biology</i> , 2022, 126, 66-70.	2.3	3
112	A new mass screening test for color-vision deficiencies in children. , 2001, 26, S239.		3
113	Color Vision. , 2011, , 648-654.		3
114	Testing hypotheses about visual pigments underlying deutan color vision. <i>Color Research and Application</i> , 2001, 26, S106-S111.	0.8	2
115	The Genetic Basis for Normal Vision and Vision Disorders. <i>FASEB Journal</i> , 2012, 26, 458.2.	0.2	1
116	Differences between the S-OFF and L/M-OFF contacts inform the role of OFF midget bipolar cells in the perception of yellow. <i>Journal of Vision</i> , 2017, 17, 15.	0.1	1
117	Limitation of standard pseudoisochromatic plates in identifying colour vision deficiencies when compared with genetic testing. <i>Acta Ophthalmologica</i> , 2022, , .	0.6	1
118	How We See Black and White: The Role of Midget Ganglion Cells. <i>Frontiers in Neuroanatomy</i> , 0, 16, .	0.9	1
119	Color vision defects. , 2010, , 478-485.		0
120	Gene therapy as a cure for color blindness. <i>FASEB Journal</i> , 2012, 26, 458.3.	0.2	0
121	The best of both worlds: A Maxwellian view visual stimulator incorporating a DLP spatiotemporal light driver with a programmable tunable spectrum source for studying human color vision. <i>Journal of Vision</i> , 2017, 17, 45.	0.1	0
122	The Genetics of Cone Opsin Based Vision Disorders. , 2020, , 493-507.		0