

Joel Pokorny

List of Publications by Year in descending order

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134
papers

9,491
citations

50170

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h-index

40881

93
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134
all docs

134
docs citations

134
times ranked

3023
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifty Years Exploring the Visual System. Annual Review of Vision Science, 2020, 6, 1-23.	2.3	12
2	Flicker Adaptation Desensitizes the Magnocellular but Not the Parvocellular Pathway. , 2015, 56, 2901.		9
3	Macular Pigment Optical Density Measured by Heterochromatic Modulation Photometry. PLoS ONE, 2014, 9, e110521.	1.1	13
4	Quantal and non-quantal color matches: failure of Grassmann's laws at short wavelengths. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A324.	0.8	2
5	Review: Steady and pulsed pedestals, the how and why of post-receptoral pathway separation. Journal of Vision, 2011, 11, 7-7.	0.1	46
6	Isolated mesopic rod and cone electroretinograms realized with a four-primary method. Documenta Ophthalmologica, 2011, 123, 29-41.	1.0	17
7	Functional Loss in the Magnocellular and Parvocellular Pathways in Patients with Optic Neuritis. , 2011, 52, 8900.		17
8	Rod and cone contrast gains derived from reaction time distribution modeling. Journal of Vision, 2010, 10, 1-15.	0.1	18
9	Chromatic adaptation in red-green cone-opponent retinal ganglion cells of the macaque. Vision Research, 2008, 48, 2625-2632.	0.7	0
10	Rod-cone interactions and the temporal impulse response of the cone pathway. Vision Research, 2008, 48, 2593-2598.	0.7	31
11	Rod contributions to color perception: Linear with rod contrast. Vision Research, 2008, 48, 2586-2592.	0.7	88
12	Sequential processing in vision: The interaction of sensitivity regulation and temporal dynamics. Vision Research, 2008, 48, 2649-2656.	0.7	36
13	S-cone discrimination for stimuli with spatial and temporal chromatic contrast. Visual Neuroscience, 2008, 25, 349-354.	0.5	13
14	The color of night: Surface color categorization by color defective observers under dim illuminations. Visual Neuroscience, 2008, 25, 475-480.	0.5	7
15	Chromatic discrimination in the presence of incremental and decremental rod pedestals. Visual Neuroscience, 2008, 25, 399-404.	0.5	21
16	Anisometric Amblyopia: Spatial Contrast Sensitivity Deficits in Inferred Magnocellular and Parvocellular Vision. , 2007, 48, 3622.		33
17	Linking impulse response functions to reaction time: Rod and cone reaction time data and a computational model. Vision Research, 2007, 47, 1060-1074.	0.7	62
18	Threshold units: A correct metric for reaction time?. Vision Research, 2007, 47, 608-611.	0.7	18

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19	Human and macaque pupil responses driven by melanopsin-containing retinal ganglion cells. <i>Vision Research</i> , 2007, 47, 946-954.	0.7	512
20	Psychophysical Correlates of Identified Physiological Processes. , 2006, , 311-358.		2
21	Color Vision and Night Vision. , 2006, , 209-225.		0
22	Spatial and temporal chromatic contrast: Effects on chromatic discrimination for stimuli varying in L- and M-cone excitation. <i>Visual Neuroscience</i> , 2006, 23, 495-501.	0.5	25
23	Achromatic parvocellular contrast gain in normal and color defective observers: Implications for the evolution of color vision. <i>Visual Neuroscience</i> , 2006, 23, 611-616.	0.5	14
24	Dark-adapted rod suppression of cone flicker detection: Evaluation of receptor and postreceptor interactions. <i>Visual Neuroscience</i> , 2006, 23, 531-537.	0.5	43
25	The color of night: Surface color perception under dim illuminations. <i>Visual Neuroscience</i> , 2006, 23, 525-530.	0.5	45
26	Spatial and temporal chromatic contrast: Effects on chromatic discrimination for stimuli varying in L- and M-cone excitation. <i>Visual Neuroscience</i> , 2006, 23, 495-501.	0.5	15
27	Melanopsin-expressing ganglion cells in primate retina signal colour and irradiance and project to the LGN. <i>Nature</i> , 2005, 433, 749-754.	13.7	1,135
28	Audiophile hardware in vision science; the soundcard as a digital to analog converter. <i>Journal of Neuroscience Methods</i> , 2005, 142, 77-81.	1.3	27
29	Associating color appearance with the cone chromaticity space. <i>Vision Research</i> , 2005, 45, 1929-1934.	0.7	9
30	Matching rod percepts with cone stimuli. <i>Vision Research</i> , 2005, 45, 2119-2128.	0.7	55
31	Contrast-Processing Deficits in Melanoma-Associated Retinopathy. , 2004, 45, 305.		27
32	Contrast Sensitivity Deficits in Inferred Magnocellular and Parvocellular Pathways in Retinitis Pigmentosa. , 2004, 45, 4510.		41
33	Photostimulator allowing independent control of rods and the three cone types. <i>Visual Neuroscience</i> , 2004, 21, 263-267.	0.5	79
34	Inferred retinal mechanisms mediating illusory distortions. <i>Visual Neuroscience</i> , 2004, 21, 321-325.	0.5	4
35	Guest editorials. <i>Australasian journal of optometry</i> , The, 2004, 87, 203-205.	0.6	1
36	Interactions of chromaticity and luminance in edge identification depend on chromaticity. <i>Visual Neuroscience</i> , 2004, 21, 377-382.	0.5	0

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37	Spatial frequency processing in inferred PC- and MC-pathways. <i>Vision Research</i> , 2003, 43, 2133-2139.	0.7	80
38	Color Matching and Color Discrimination. , 2003, , 103-148.		26
39	Dynamics of sensitivity regulation in primate outer retina: The horizontal cell network. <i>Journal of Vision</i> , 2003, 3, 5.	0.1	33
40	Temporal dynamics of early light adaptation. <i>Journal of Vision</i> , 2003, 3, 3.	0.1	19
41	Characterization and use of a digital light projector for vision research. <i>Vision Research</i> , 2001, 41, 427-439.	0.7	59
42	Contrast discrimination deficits in retinitis pigmentosa are greater for stimuli that favor the magnocellular pathway. <i>Vision Research</i> , 2001, 41, 671-683.	0.7	24
43	The consequences of opponent rectification: the effect of surround size and luminance on color appearance. <i>Vision Research</i> , 2001, 41, 859-871.	0.7	18
44	The role of spatial frequency in color induction. <i>Vision Research</i> , 2001, 41, 1007-1021.	0.7	51
45	Pulse and steady-pedestal contrast discrimination: effect of spatial parameters. <i>Vision Research</i> , 2001, 41, 2079-2088.	0.7	31
46	Primate Horizontal Cell Dynamics: An Analysis of Sensitivity Regulation in the Outer Retina. <i>Journal of Neurophysiology</i> , 2001, 85, 545-558.	0.9	66
47	Rod-cone interactions assessed in inferred magnocellular and parvocellular postreceptoral pathways. <i>Journal of Vision</i> , 2001, 1, 5.	0.1	52
48	Control of the modulation of human photoreceptors. <i>Color Research and Application</i> , 2001, 26, S69-S75.	0.8	24
49	Temporal sensitivity of macaque ganglion cells to lights of different chromaticity. <i>Color Research and Application</i> , 2001, 26, S140-S144.	0.8	13
50	Brightness induction from rods. <i>Journal of Vision</i> , 2001, 1, 4.	0.1	29
51	Chromatic contrast discrimination: Data and prediction for stimuli varying in L and M cone excitation. <i>Color Research and Application</i> , 2000, 25, 105-115.	0.8	39
52	Red-green chromatic discrimination with variegated and homogeneous stimuli. <i>Vision Research</i> , 1998, 38, 3271-3274.	0.7	8
53	Color vision in two observers with highly biased LWS/MWS cone ratios. <i>Vision Research</i> , 1998, 38, 601-612.	0.7	85
54	Color appearance: neutral surrounds and spatial contrast. <i>Vision Research</i> , 1998, 38, 3265-3269.	0.7	9

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55	Optical density of the human lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 953.	0.8	76
56	Psychophysical signatures associated with magnocellular and parvocellular pathway contrast gain. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 2477.	0.8	134
57	Rod inputs to macaque ganglion cells. <i>Vision Research</i> , 1997, 37, 2813-2828.	0.7	137
58	Cone-rod receptor spaces with illustrations that use CRT phosphor and light-emitting-diode spectra. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 2319.	0.8	113
59	Increment threshold and purity discrimination spectral sensitivities of X-chromosome-linked color-defective observers. <i>Vision Research</i> , 1996, 36, 1597-1613.	0.7	29
60	Color Contrast Under Controlled Chromatic Adaptation Reveals Opponent Rectification. <i>Vision Research</i> , 1996, 36, 3087-3105.	0.7	40
61	An investigation of scotopic threshold-versus-illuminance curves for the analysis of color-matching data. <i>Color Research and Application</i> , 1996, 21, 80-86.	0.8	3
62	The design and use of a cone chromaticity space: A tutorial. <i>Color Research and Application</i> , 1996, 21, 375-383.	0.8	72
63	Chromatic-discrimination axes, CRT phosphor spectra, and individual variation in color vision. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 27.	0.8	55
64	Mechanisms subserving temporal modulation sensitivity in silent-cone substitution. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 241.	0.8	39
65	Assessment of S-cone sensitivity. <i>Documenta Ophthalmologica Proceedings Series</i> , 1995, , 299-308.	0.0	2
66	The red-green chromatic system in X-chromosome-linked anomalous trichromats. <i>Documenta Ophthalmologica Proceedings Series</i> , 1995, , 149-157.	0.0	0
67	Effect of sawtooth polarity on chromatic and luminance detection. <i>Visual Neuroscience</i> , 1994, 11, 491-499.	0.5	20
68	Rod contribution to large-field color matching. <i>Color Research and Application</i> , 1994, 19, 236-245.	0.8	13
69	Responses to pulses and sinusoids in macaque ganglion cells. <i>Vision Research</i> , 1994, 34, 3081-3096.	0.7	157
70	How surrounds affect chromaticity discrimination. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993, 10, 545.	0.8	65
71	Luminance. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993, 10, 1283.	0.8	204
72	Spectral-luminosity functions, scalar linearity, and chromatic adaptation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993, 10, 1304.	0.8	32

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73	Pigment tests evaluated by a model of chromatic discrimination. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993, 10, 1773.	0.8	19
74	Responses of macaque ganglion cells and human observers to compound periodic waveforms. <i>Vision Research</i> , 1993, 33, 1997-2011.	0.7	114
75	Chromatic discrimination with variation in chromaticity and luminance: Data and theory. <i>Vision Research</i> , 1993, 33, 1835-1845.	0.7	58
76	Colorimetric purity discrimination: Data and theory. <i>Vision Research</i> , 1993, 33, 1847-1857.	0.7	17
77	The Farnsworth-Munsell 100-hue test in cone excitation space. <i>Documenta Ophthalmologica Proceedings Series</i> , 1993, , 281-291.	0.0	1
78	Sawtooth contrast sensitivity: Effects of mean illuminance and low temporal frequencies. <i>Vision Research</i> , 1992, 32, 1239-1247.	0.7	35
79	Full-spectrum cone sensitivity functions for X-chromosome-linked anomalous trichromats. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992, 9, 1465.	0.8	188
80	Foveal cone detection statistics in color-normals and dichromats. <i>Vision Research</i> , 1991, 31, 1021-1037.	0.7	72
81	Variability in Cone Populations and Implications. , 1991, , 23-34.		37
82	Sensitivity of arrangement tests as evaluated in normals at reduced levels of illumination. <i>Documenta Ophthalmologica Proceedings Series</i> , 1991, , 177-185.	0.0	16
83	Genetic studies of variation in rayleigh and photometric matches in normal trichromats. <i>Vision Research</i> , 1990, 30, 149-162.	0.7	75
84	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.	0.8	432
85	Sawtooth contrast sensitivity: Decrements have the edge. <i>Vision Research</i> , 1989, 29, IN1-1509.	0.7	89
86	Foveal cone thresholds. <i>Vision Research</i> , 1989, 29, 61-78.	0.7	118
87	Autosomal Dominantly Inherited Macular Dystrophy with Preferential Short-Wavelength Sensitive Cone Involvement. <i>American Journal of Ophthalmology</i> , 1989, 108, 265-276.	1.7	21
88	Heterochromatic modulation photometry. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1989, 6, 1618.	0.8	50
89	A Familial Macular Dystrophy with Apparently Preferential Short-Wavelength-Sensitive Cone Involvement. Preliminary Report. <i>Documenta Ophthalmologica Proceedings Series</i> , 1989, , 195-200.	0.0	1
90	A Computer-Controlled Briefcase Anomaloscope. <i>Documenta Ophthalmologica Proceedings Series</i> , 1989, , 515-522.	0.0	16

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91	Critical Flicker Frequency in X-Chromosome Linked Dichromats. Documenta Ophthalmologica Proceedings Series, 1989, , 69-77.	0.0	5
92	Color matching and the Stilesâ€“Crawford effect in observers with early age-related macular changes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 2113.	0.8	54
93	Limits of binocular fusion in the short wave sensitive (â€œblueâ€œ) cones. Vision Research, 1988, 28, 555-562.	0.7	29
94	Appearance of steadily viewed lights. Vision Research, 1987, 27, 1309-1318.	0.7	28
95	Temporal modulation sensitivity and pulse-detection thresholds for chromatic and luminance perturbations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 1992.	0.8	236
96	Effects of temporal frequency on phase-dependent sensitivity to heterochromatic flicker. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 2266.	0.8	35
97	Aging of the human lens. Applied Optics, 1987, 26, 1437.	2.1	432
98	Improved Clinical Technique For Wald-MarrÃ© Functions. Documenta Ophthalmologica Proceedings Series, 1987, , 259-265.	0.0	6
99	Phase-dependent sensitivity to heterochromatic flicker. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 921.	0.8	54
100	Eye disease and color defects. Vision Research, 1986, 26, 1573-1584.	0.7	36
101	Color-Axis Determination on the Farnsworth-Munsell 100-Hue Test. American Journal of Ophthalmology, 1985, 100, 176-182.	1.7	156
102	Threshold temporal integration of chromatic stimuli. Vision Research, 1984, 24, 653-660.	0.7	85
103	Foveal Densitometry in Central Serous Choroidopathy. American Journal of Ophthalmology, 1984, 98, 359-368.	1.7	26
104	Metameric Matches Relevant for Assessment of Color Vision. Documenta Ophthalmologica Proceedings Series, 1984, , 83-94.	0.0	3
105	Densitometric measurement of human cone photopigment kinetics. Vision Research, 1983, 23, 517-524.	0.7	50
106	Brightness of equal-luminance lights. Journal of the Optical Society of America, 1982, 72, 1225.	1.2	67
107	New observations concerning redâ€“green color defects. Color Research and Application, 1982, 7, 159-164.	0.8	37
108	Classification of complete and incomplete autosomal recessive achromatopsia. Graefe's Archive for Clinical and Experimental Ophthalmology, 1982, 219, 121-130.	1.0	52

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109	Visual Function Abnormalities in Macular Heterotopia Caused by Proliferative Diabetic Retinopathy. American Journal of Ophthalmology, 1981, 92, 85-102.	1.7	19
110	Color matching in autosomal dominant tritan defect. Journal of the Optical Society of America, 1981, 71, 1327.	1.2	42
111	A variant of red-green color defect. Vision Research, 1981, 21, 311-317.	0.7	4
112	Macular Color Vision Defects. International Ophthalmology Clinics, 1980, 20, 53-82.	0.3	37
113	Duration thresholds for chromatic stimuli. Journal of the Optical Society of America, 1979, 69, 103.	1.2	14
114	Autosomal Recessive Incomplete Achromatopsia with Deutan Luminosity. American Journal of Ophthalmology, 1979, 87, 393-402.	1.7	16
115	Chromatic information processing.. Journal of Experimental Psychology: Human Perception and Performance, 1979, 5, 406-419.	0.7	14
116	Visual Function in Acute Posterior Multifocal Placoid Pigment Epitheliopathy. American Journal of Ophthalmology, 1978, 85, 192-199.	1.7	42
117	Autosomal Recessive Incomplete Achromatopsia with Protan Luminosity Function. Ophthalmologica, 1978, 177, 197-207.	1.0	20
118	Metacontrast masking depends on luminance transients. Vision Research, 1977, 17, 971-975.	0.7	28
119	A New Technique for Proper Illumination for Color Vision Tests. American Journal of Ophthalmology, 1977, 84, 429.	1.7	0
120	Large-field trichromacy in protanopes and deuteranopes*. Journal of the Optical Society of America, 1977, 67, 213.	1.2	177
121	Evaluation of single-pigment shift model of anomalous trichromacy*. Journal of the Optical Society of America, 1977, 67, 1196.	1.2	107
122	Wavelength effects on simple reaction time. Perception & Psychophysics, 1977, 22, 457-462.	2.3	70
123	Effect of field size on red-green color mixture equations. Journal of the Optical Society of America, 1976, 66, 705.	1.2	94
124	Variability of color mixture dataâ€”I. Interobserver variability in the unit coordinates. Vision Research, 1976, 16, 1087-1094.	0.7	97
125	Variability of color mixture dataâ€”II. The effect of viewing field size on the unit coordinates. Vision Research, 1976, 16, 1095-1098.	0.7	43
126	Photopigments in anomalous trichromats*. Journal of the Optical Society of America, 1975, 65, 1522.	1.2	10

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127	Spectral sensitivity of the foveal cone photopigments between 400 and 500 nm. Vision Research, 1975, 15, 161-171.	0.7	1,224
128	Derivation of the photopigment absorption spectra in anomalous trichromats*. Journal of the Optical Society of America, 1973, 63, 232.	1.2	44
129	Psychophysical estimates of optical density in human cones. Vision Research, 1973, 13, 1199-1202.	0.7	31
130	Continuous Hue Estimation of Brief Flashes by Deuteranomalous Observers. American Journal of Psychology, 1973, 86, 115.	0.5	19
131	Luminosity and CFF in Deuteranopes and Protanopes*. Journal of the Optical Society of America, 1972, 62, 111.	1.2	30
132	Spectral sensitivity of color-blind observers and the cone photopigments. Vision Research, 1972, 12, 2059-2071.	0.7	156
133	Wavelength Discrimination in the Presence of Added Chromatic Fields*. Journal of the Optical Society of America, 1970, 60, 562.	1.2	37
134	Similarities between Congenital Tritan Defects and Dominant Optic-Nerve Atrophy: Coincidence or Identity?*. Journal of the Optical Society of America, 1970, 60, 1132.	1.2	32