Andrew Stockman

List of Publications by Citations

65 papers	4,475 citations	24 h-index	66 g-index
69 ext. papers	5,028 ext. citations	4.9 avg, IF	4.99 L-index

#	Paper	IF	Citations
65	Effect of gene therapy on visual function in Leber's congenital amaurosis. *New England Journal of Medicine*, **2008**, 358, 2231-9	59.2	1542
64	The spectral sensitivities of the middle- and long-wavelength-sensitive cones derived from measurements in observers of known genotype. *Vision Research*, **2000**, 40, 1711-37	2.1	542
63	Long-term effect of gene therapy on Leber's congenital amaurosis. *New England Journal of Medicine*, **2015**, 372, 1887-97	59.2	489
62	Spectral sensitivities of the human cones. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1993**, 10, 2491-521	1.8	248
61	The spectral sensitivity of the human short-wavelength sensitive cones derived from thresholds and color matches. *Vision Research*, **1999**, 39, 2901-27	2.1	172
60	Rod pathways: the importance of seeing nothing. *Trends in Neurosciences*, **1999**, 22, 497-504	13.3	164
59	The temporal properties of the human short-wave photoreceptors and their associated pathways. *Vision Research*, **1991**, 31, 189-208	2.1	157
58	Into the twilight zone: the complexities of mesopic vision and luminous efficiency. *Ophthalmic and Physiological Optics*, **2006**, 26, 225-39	4.1	150
57	Red, green, and red-green hybrid pigments in the human retina: correlations between deduced protein sequences and psychophysically measured spectral sensitivities. *Journal of Neuroscience*, **1998**, 18, 10053-69	6.6	110
56	Identification of novel RPGR ORF15 mutations in X-linked progressive cone-rod dystrophy (XLCORD) families. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 1891-8		87
55	Rod flicker perception: scotopic duality, phase lags and destructive interference. *Vision Research*, **1989**, 29, 1539-59	2.1	77
54	Macular pigment densities derived from central and peripheral spectral sensitivity differences. *Vision Research*, **1998**, 38, 3233-9	2.1	53
53	Two signals in the human rod visual system: a model based on electrophysiological data. *Visual Neuroscience*, **1995**, 12, 951-70	1.7	43
52	Isolation of the middle- and long-wavelength-sensitive cones in normal trichromats. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1993**, 10, 2471-90	1.8	38
51	Human cone light adaptation: from behavioral measurements to molecular mechanisms. *Journal of Vision*, **2006**, 6, 1194-213	0.4	37
50	Slow and fast pathways in the human rod visual system: electrophysiology and psychophysics. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1991**, 8, 1657-65	1.8	37
49	X-linked cone dystrophy caused by mutation of the red and green cone opsins. *American Journal of Human Genetics*, **2010**, 87, 26-39	11	35

48	Early onset retinal dystrophy due to mutations in LRAT: molecular analysis and detailed phenotypic study **2012**, 53, 3927-38		33
47	Color from invisible flicker: a failure of the Talbot-Plateau law caused by an early ‘hard’saturating nonlinearity used to partition the human short-wave cone pathway. *Vision Research*, **1998**, 38, 3703-28	2.1	33
46	The dependence of luminous efficiency on chromatic adaptation. *Journal of Vision*, **2008**, 8, 1.1-26	0.4	33
45	Spectral sensitivities of human cone visual pigments determined in vivo and in vitro. *Methods in Enzymology*, **2000**, 316, 626-50	1.7	32
44	The spectral sensitivities of the middle- and long-wavelength cones: an extension of the two-colour threshold technique of W S Stiles. *Perception*, **1986**, 15, 729-54	1.2	28
43	Human cone spectral sensitivities: a progress report. *Vision Research*, **1998**, 38, 3193-206	2.1	26
42	The effect of sildenafil citrate (Viagra) on visual sensitivity. *Journal of Vision*, **2007**, 7, 4	0.4	25
41	Tritanopic color matches and the middle- and long-wavelength-sensitive cone spectral sensitivities. *Vision Research*, **2000**, 40, 1739-50	2.1	19
40	L, M and L-M hybrid cone photopigments in man: deriving lambda max from flicker photometric spectral sensitivities. *Vision Research*, **1999**, 39, 3513-25	2.1	19
39	A luminous efficiency function, VD65* (λ) for daylight adaptation: A correction. *Color Research and Application*, **2011**, 36, 42-46	1.3	18
38	Cone dystrophy with "supernormal" rod ERG: psychophysical testing shows comparable rod and cone temporal sensitivity losses with no gain in rod function **2014**, 55, 832-40		17
37	A tour of contemporary color vision research. *Vision Research*, **2018**, 151, 2-6	2.1	15
36	Vision in observers with enhanced S-cone syndrome: an excess of s-cones but connected mainly to conventional s-cone pathways **2014**, 55, 963-76		14
35	Human short-wavelength-sensitive cone light adaptation. *Journal of Vision*, **2007**, 7, 4	0.4	14
34	Nature of the visual loss in observers with Leber’s congenital amaurosis caused by specific mutations in RPE65. *Investigative Ophthalmology and Visual Science*, **2014**, 55, 6817-28		13
33	The Pattern of Retinal Ganglion Cell Loss in OPA1-Related Autosomal Dominant Optic Atrophy Inferred From Temporal, Spatial, and Chromatic Sensitivity Losses **2017**, 58, 502-516		12
32	Cone fundamentals and CIE standards. *Current Opinion in Behavioral Sciences*, **2019**, 30, 87-93	4	12
31	The loss of the PDE6 deactivating enzyme, RGS9, results in precocious light adaptation at low light levels. *Journal of Vision*, **2008**, 8, 10.1-10	0.4	11

30	Spectrally opponent inputs to the human luminance pathway: slow +M and -L cone inputs revealed by intense long-wavelength adaptation. *Journal of Physiology*, **2005**, 566, 61-76	3.9	11
29	The spectral properties of the two rod pathways. *Vision Research*, **1993**, 33, 2705-20	2.1	11
28	Visual consequences of molecular changes in the guanylate cyclase-activating protein **2014**, 55, 1930-40		10
27	Human scotopic sensitivity is regulated postreceptorally by changing the speed of the scotopic response. *Journal of Vision*, **2010**, 10, 12.1-19	0.4	10
26	Spectrally opponent inputs to the human luminance pathway: slow +L and -M cone inputs revealed by low to moderate long-wavelength adaptation. *Journal of Physiology*, **2005**, 566, 77-91	3.9	10
25	Residual cone vision without alpha-transducin. *Journal of Vision*, **2007**, 7, 8	0.4	8
24	Light adaptation controls visual sensitivity by adjusting the speed and gain of the response to light. *PLoS ONE*, **2019**, 14, e0220358	3.7	7
23	Color and brightness encoded in a common L- and M-cone pathway with expansive and compressive nonlinearities. *Journal of Vision*, **2014**, 14, 1	0.4	7
22	Long-wavelength adaptation reveals slow, spectrally opponent inputs to the human luminance pathway. *Journal of Vision*, **2005**, 5, 702-16	0.4	7
21	The temporal characteristics of the early and late stages of L- and M-cone pathways that signal brightness. *Journal of Vision*, **2013**, 13, 15	0.4	6
20	Viagra slows the visual response to flicker. *Current Biology*, **2006**, 16, R44-5	6.3	4
19	Delayed cone-opponent signals in the luminance pathway. *Journal of Vision*, **2018**, 18, 6	0.4	4
18	The temporal characteristics of the early and late stages of the L- and M-cone pathways that signal color. *Journal of Vision*, **2013**, 13, 2	0.4	3
17	Transitions between color categories mapped with a reverse Stroop task. *Visual Neuroscience*, **2006**, 23, 453-60	1.7	3
16	Paradoxical shifts in human color sensitivity caused by constructive and destructive interference between signals from the same cone class. *Visual Neuroscience*, **2006**, 23, 471-8	1.7	3
15	Hue shifts produced by temporal asymmetries in chromatic signals depend on the alignment of the first and second harmonics. *Journal of Vision*, **2017**, 17, 3	0.4	2
14	Linear-nonlinear models of the red-green chromatic pathway. *Journal of Vision*, **2017**, 17, 7	0.4	2
13	Hue shifts produced by temporal asymmetries in chromatic signals. *Journal of Vision*, **2017**, 17, 2	0.4	2

List of Publications

12	Clinical vision and molecular loss: Integrating visual psychophysics with molecular genetics reveals key details of normal and abnormal visual processing. *Progress in Retinal and Eye Research*, **2021**, 83, 100937	20.5	2
11	Harmonics added to a flickering light can upset the balance between ON and OFF pathways to produce illusory colors. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E4081-E4090	11.5	1
10	Fundamentals of color vision I: color processing in the eye27-69		1
9	Colorimetry **2007**,		1
8	Rod pathways: the importance of seeing nothing, by Lindsay T. Sharpe and Andrew Stockman, Vol. 22, pp. 497-504. *Trends in Neurosciences*, **2000**, 23, 39	13.3	1
7	Psychophysical measures of visual function and everyday perceptual experience in a case of congenital stationary night blindness. *Clinical Ophthalmology*, **2016**, 10, 1593-606	2.5	1
6	A reinterpretation of critical flicker-frequency (CFF) data reveals key details about light adaptation and normal and abnormal visual processing. *Progress in Retinal and Eye Research*, **2021**, 101001	20.5	1
5	Luminous Efficiency Functions **2008**, 329-351		
4	Perceptual effects of delayed cone-opponent signals from an extended surround network: In memory of Daniel J. Plummer. *Journal of Vision*, **2018**, 18, 584	0.4	
3	Illusory colors from harmonic combinations: an unexpected consequence of ON and OFF pathways. *Journal of Vision*, **2018**, 18, 361	0.4	
2	Seeing through a linear-nonlinear double-decker sandwich: the distorted world of Donald MacLeod. *Journal of Vision*, **2019**, 19, 32	0.4	
1	Delayed S-cone sensitivity losses following the onset of intense yellow backgrounds linked to the lifetime of a photobleaching product?. *Journal of Vision*, **2018**, 18, 12	0.4	