John Mollon

List of Publications by Year
in descending order

139 papers	7,138 citations	50276 46 h-index	64796 79 g-index
149 all docs	149 docs citations	149 times ranked	3564 citing authors

#	Article	IF	Citations
1	Luminance noise and the rapid determination of discrimination ellipses in colour deficiency. Vision Research, 1994, 34, 1279-1299.	1.4	288
2	Adaptation and the color statistics of natural images. Vision Research, 1997, 37, 3283-3298.	1.4	251
3	Changes in colour appearance following post-receptoral adaptation. Nature, 1991, 349, 235-238.	27.8	243
4	Catarrhine Photopigments are Optimized for Detecting Targets Against a Foliage Background. Journal of Experimental Biology, 2000, 203, 1963-1986.	1.7	230
5	The influence of contrast adaptation on color appearance. Vision Research, 1994, 34, 1993-2020.	1.4	213
6	A theory of theÎ1andÎ3color mechanisms of stiles. Vision Research, 1979, 19, 293-312.	1.4	211
7	A study of women heterozygous for colour deficiencies. Vision Research, 1993, 33, 1495-1508.	1.4	210
8	Three remarks on perceptual learning. Spatial Vision, 1996, 10, 51-58.	1.4	200
9	Color Vision. Annual Review of Psychology, 1982, 33, 41-85.	17.7	180
10	Molecular evolution of trichromacy in primates. Vision Research, 1998, 38, 3299-3306.	1.4	151
11	Chromaticity as a Signal of Ripeness in Fruits Taken by Primates. Journal of Experimental Biology, 2000, 203, 1987-2000.	1.7	144
12	The spatial arrangement of cones in the primate fovea. Nature, 1992, 360, 677-679.	27.8	140
13	Frugivory and colour vision in Alouatta seniculus, a trichromatic platyrrhine monkey. Vision Research, 1998, 38, 3321-3327.	1.4	140
14	Reaction time as a measure of the temporal response properties of individual colour mechanisms. Vision Research, 1973, 13, 27-40.	1.4	135
15	Microspectrophotometric demonstration of four classes of photoreceptor in an old world primate, Macaca fascicularis.. Journal of Physiology, 1980, 298, 131-143.	2.9	134
16	The relationship between cone pigments and behavioural sensitivity in a new world monkey (Callithrix) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.4	131
17	CAG repeat expansions and schizophrenia: association with disease in females and with early age-at-onset. Human Molecular Genetics, 1995, 4, 1957-1961.	2.9	131
18	What do colour-blind people see?. Nature, 1995, 376, 127-128.	27.8	129

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19	Colour constancy influenced by contrast adaptation. Nature, 1995, 373, 694-698.	27.8	126
20	Colors of primate pelage and skin: Objective assessment of conspicuousness. American Journal of Primatology, 2003, 59, 67-91.	1.7	122
21	Individual differences in human eye movements: An oculomotor signature?. Vision Research, 2017, 141, 157-169.	1.4	122
22	The polymorphic photopigments of the marmoset: spectral tuning and genetic basis.. EMBO Journal, 1992, 11, 2039-2045.	7.8	112
23	Achromatopsia caused by novel mutations in both CNGA3 and CNGB3. Journal of Medical Genetics, 2004, 41, 20e-20.	3.2	109
24	The visual pigments of rods and cones in the rhesus monkey, Macaca mulatta.. Journal of Physiology, 1978, 274, 329-348.	2.9	105
25	Signals Invisible to the Collicular and Magnocellular Pathways Can Capture Visual Attention. Current Biology, 2002, 12, 1312-1316.	3.9	100
26	The chemistry of John Dalton's color blindness. Science, 1995, 267, 984-988.	12.6	99
27	Polymorphism of visual pigments in a callitrichid monkey. Vision Research, 1988, 28, 481-490.	1.4	98
28	Adaptive evolution of color vision genes in higher primates. Science, 1995, 269, 1265-1267.	12.6	97
29	Monge: The Verriest Lecture, Lyon, July 2005. Visual Neuroscience, 2006, 23, 297-309.	1.0	93
30	General and specific factors in the processing of faces. Vision Research, 2017, 141, 217-227.	1.4	82
31	Individual differences in visual science: What can be learned and what is good experimental practice?. Vision Research, 2017, 141, 4-15.	1.4	82
32	The dimensionality of color vision in carriers of anomalous trichromacy. Journal of Vision, 2010, 10, 12-12.	0.3	79
33	The independence of the temporal integration properties of individual chromatic mechanisms in the human eye. Journal of Physiology, 1971, 219, 611-623.	2.9	76
34	Sequence divergence, polymorphism and evolution of the middle-wave and long-wave visual pigment genes of great apes and old world monkeys. Vision Research, 1994, 34, 2483-2491.	1.4	75
35	Progressive Cone Dystrophy Associated with Mutation inCNGB3. , 2004, 45, 1975.		74
36	Structure and evolution of the polymorphic photopigment gene of the marmoset. Vision Research, 1993, 33, 147-154.	1.4	70

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37	A population study of binocular function. Vision Research, 2015, 110, 34-50.	1.4	70
38	Multidimensional scaling reveals a color dimension unique to â€˜color-deficientâ€™ observers. Current Biology, 2005, 15, R950-R952.	3.9	68
39	A detailed phenotypic study of "cone dystrophy with supernormal rod ERG". British Journal of Ophthalmology, 2005, 89, 332-339.	3.9	63
40	Blue cone monochromatism: a phenotype and genotype assessment with evidence of progressive loss of cone function in older individuals. Eye, 2005, 19, 2-10.	2.1	61
41	Is the S-opponent chromatic sub-system sluggish?. Vision Research, 2004, 44, 2919-2929.	1.4	57
42	X-Linked Cone Dysfunction Syndrome with Myopia and Protanopia. Ophthalmology, 2005, 112, 1448-1454.	5.2	53
43	The club-sandwich mystery. Nature, 1990, 343, 16-17.	27.8	52
44	A neural basis for unique hues?. Current Biology, 2009, 19, R441-R442.	3.9	52
45	Colour discrimination thresholds in Parkinson's disease: results obtained with a rapid computer-controlled colour vision test. Vision Research, 1998, 38, 3427-3431.	1.4	49
46	Rayleigh matches and unique green. Vision Research, 1995, 35, 613-620.	1.4	48
47	The Origins of Modern Color Science. , 2003, , 1-39.		47
48	Saturation of a retinal cone mechanism. Nature, 1977, 265, 243-246.	27.8	46
49	Colour illusion and evidence for interaction between cone mechanisms. Nature, 1975, 258, 421-422.	27.8	45
50	A cluster of single nucleotide polymorphisms in the 5â€²-leader of the human dopamine D3 receptor gene (DRD3) and its relationship to schizophrenia. Neuroscience Letters, 2000, 279, 13-16.	2.1	45
51	Cone dystrophy phenotype associated with a frameshift mutation (M280fsX291) in the Â-subunit of cone specific transducin (GNAT2). British Journal of Ophthalmology, 2003, 87, 1317-1320.	3.9	45
52	Genetic association suggests that SMOC1 mediates between prenatal sex hormones and digit ratio. Human Genetics, 2013, 132, 415-421.	3.8	43
53	Worlds of difference. Nature, 1992, 356, 378-379.	27.8	42
54	Sequence and Evolution of the Blue Cone Pigment Gene in Old and New World Primates. Genomics, 1995, 27, 535-538.	2.9	42

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55	Color discrimination in carriers of color deficiency. Vision Research, 2006, 46, 2894-2900.	1.4	42
56	Do different â€˜magnocellular tasksâ€™ probe the same neural substrate?. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4263-4271.	2.6	41
57	The psychophysics of detecting binocular discrepancies of luminance. Vision Research, 2009, 49, 1929-1938.	1.4	40
58	Vision out of the corner of the eye. Vision Research, 2011, 51, 203-214.	1.4	40
59	Color vision: Opsins and options. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4743-4745.	7.1	37
60	Two types of trichromatic squirrel monkey share a pigment in the red-green spectral region. Vision Research, 1985, 25, 1937-1946.	1.4	35
61	Parafoveal color discrimination: A chromaticity locus of enhanced discrimination. Journal of Vision, 2011, 10, 4-4.	0.3	34
62	Integrity of the Cone Photoreceptor Mosaic in Oligocone Trichromacy. , 2011, 52, 4757.		33
63	The comparison of spatially separated colours. Vision Research, 2006, 46, 823-836.	1.4	32
64	Variants in the 1q21 risk region are associated with a visual endophenotype of autism and schizophrenia. Genes, Brain and Behavior, 2014, 13, 144-151.	2.2	32
65	Post-receptoral adaptation. Vision Research, 1979, 19, 435-440.	1.4	31
66	Colour discrimination ellipses in patients with dominant optic atrophy. Vision Research, 1998, 38, 3413-3419.	1.4	31
67	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, 729-754.	1.2	29
68	Behavioural and microspectrophotometric measurements of colour vision in monkeys. Nature, 1981, 292, 541-543.	27.8	28
69	The effect of photopigment optical density on the color vision of the anomalous trichromat. Vision Research, 2011, 51, 2224-2233.	1.4	28
70	Foveal color perception: Minimal thresholds at a boundary between perceptual categories. Vision Research, 2012, 62, 162-172.	1.4	28
71	Do masks terminate the icon?. Quarterly Journal of Experimental Psychology, 2006, 59, 150-160.	1.1	27
72	An exploratory factor analysis of visual performance in a large population. Vision Research, 2017, 141, 303-316.	1.4	27

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73	Is there a general trait of susceptibility to simultaneous contrast?. Vision Research, 2010, 50, 1656-1664.	1.4	25
74	An online version of the Mooney Face Test: phenotypic and genetic associations. Neuropsychologia, 2014, 63, 19-25.	1.6	24
75	Modelling the Rayleigh match. Visual Neuroscience, 2004, 21, 477-482.	1.0	23
76	X-linked cone dystrophy and colour vision deficiency arising from a missense mutation in a hybrid L/M cone opsin gene. Vision Research, 2013, 80, 41-50.	1.4	22
77	Cardinal axes are not independent in color discrimination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A157.	1.5	21
78	The origins of the concept of interference. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 807-819.	3.4	20
79	Comparison at a Distance. Perception, 2003, 32, 395-414.	1.2	20
80	The Oxytocin Receptor Gene (OXTR) and Face Recognition. Psychological Science, 2017, 28, 47-55.	3.3	20
81	Perception: Questions of sex and colour. Nature, 1986, 323, 578-579.	27.8	17
82	Motion Minima for Different Directions in Color Space. Vision Research, 1997, 37, 1479-1498.	1.4	17
83	Post-receptoral processes in colour vision. Nature, 1980, 283, 623-624.	27.8	16
84	Is there brief temporal buffering of successive visual inputs?. Quarterly Journal of Experimental Psychology, 2011, 64, 767-791.	1.1	16
85	The discriminability of colours on c.r.t. displays. Journal of the Institution of Electronic and Radio Engineers, 1986, 56, 107.	0.1	15
86	Transient tritanopia of a second kind. Vision Research, 1987, 27, 637-650.	1.4	14
87	Conditions under Which Stereopsis and Motion Perception are Blind. Perception, 2002, 31, 65-71.	1.2	14
88	The symmetry of visual fields in chromatic discrimination. Brain and Cognition, 2009, 69, 39-46.	1.8	13
89	Compatible and incompatible representations in visual sensory storage. Journal of Vision, 2012, 12, 1-1.	0.3	13
90	Kirschmannâ€™s Fourth Law. Vision Research, 2012, 53, 40-46.	1.4	13

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91	Can spatial resolution reveal individual differences in the L:M cone ratio?. Vision Research, 2013, 78, 26-38.	1.4	13
92	Individual differences provide psychophysical evidence for separate on- and off-pathways deriving from short-wave cones. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A47.	1.5	13
93	Homozygous Resistance to Thyroid Hormone Î²: Can Combined Antithyroid Drug and Triiodothyroacetic Acid Treatment Prevent Cardiac Failure?. Journal of the Endocrine Society, 2017, 1, 1203-1212.	0.2	13
94	Molecular genetics: Understanding colour vision. Nature, 1986, 321, 12-13.	27.8	12
95	Hue and the heptahelicals. Nature, 1991, 351, 696-697.	27.8	12
96	The Lagerlunda Collision and the Introduction of Color Vision Testing. Survey of Ophthalmology, 2012, 57, 178-194.	4.0	12
97	A reduction in stimulus duration can improve wavelength discriminations mediated by short-wave cones. Vision Research, 1992, 32, 745-755.	1.4	11
98	Measurements of Human Sensitivity to Comb-filtered Spectra. Vision Research, 1996, 36, 2713-2720.	1.4	11
99	Latency characteristics of the short-wavelength-sensitive cones and their associated pathways. Journal of Vision, 2009, 9, 5-5.	0.3	11
100	Suggestive Association With Ocular Phoria at Chromosome 6p22. , 2014, 55, 345.		10
101	Superior discrimination for hue than for saturation and an explanation in terms of correlated neural noise. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160164.	2.6	10
102	John Elliot MD (1747â€“1787). Nature, 1987, 329, 19-20.	27.8	9
103	Is discrimination enhanced at the boundaries of perceptual categories? A negative case. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140367.	2.6	9
104	Susanne Liebmann in the Critical Zone. Perception, 1996, 25, 1451-1495.	1.2	8
105	Tetrachromacy: the mysterious case of extra-ordinary color vision. Current Opinion in Behavioral Sciences, 2019, 30, 130-134.	3.9	8
106	Symmetries and asymmetries in chromatic discrimination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A247.	1.5	7
107	A new Mooney test. Behavior Research Methods, 2016, 48, 1546-1559.	4.0	7
108	Mixing genes and mixing colours. Current Biology, 1993, 3, 82-85.	3.9	6

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109	Relative latencies of cone signals measured by a moving vernier task. Journal of Vision, 2008, 8, 16-16.	0.3	6
110	Individual differences as a window into the structure and function of the visual system. Vision Research, 2017, 141, 1-3.	1.4	6
111	Syringe labels seen through the eyes of the colour-deficient clinician. British Journal of Anaesthesia, 2018, 121, 1370-1373.	3.4	5
112	The gap effect is exaggerated in parafovea. Visual Neuroscience, 2006, 23, 509-517.	1.0	4
113	Counterphase modulation photometry: comparison of two instruments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A34.	1.5	4
114	<title>Difficulties faced by color-anomalous observers in interpreting color displays</title>. , 1990, , .		3
115	Counterphase modulation flicker photometry: phenotypic and genotypic associations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A226.	1.5	3
116	Bongard and Smirnov on the tetrachromacy of extra-foveal vision. Vision Research, 2022, 195, 107952.	1.4	3
117	What kind of network is the brain?. Trends in Cognitive Sciences, 2022, 26, 312-324.	7.8	3
118	Microspectrophotometric measurements indicate variation in the visual pigments of the common marmoset, a new world primate. Vision Research, 1984, 24, 1698.	1.4	2
119	Association study of CAG expansions with schizophrenia. Schizophrenia Research, 1995, 15, 41.	2.0	2
120	<title>Color in natural images and its implications for visual adaptation</title>. , 1996, , .		2
121	Shift in Rayleigh matches after adaptation to monochromatic light of various intensities. Vision Research, 1998, 38, 3253-3257.	1.4	2
122	Cortical communication and the comparison of colors. Current Opinion in Behavioral Sciences, 2019, 30, 203-209.	3.9	2
123	". . . On the Basis of Velocity Clues Alone": Some Perceptual Themes 1946-1996. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1997, 50, 859-878.	2.3	2
124	Fixation and Perception. Optica Acta, 1968, 15, 295-297.	0.7	1
125	Walter Stanley Stiles 1901â€“1985. Perception, 1986, 15, 657-666.	1.2	1
126	Association of CAG repeat expansions with clinical features of schizophrenia. Schizophrenia Research, 1996, 18, 168.	2.0	1

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127	Gregory's 1977 Paper. Perception, 2009, 38, 827-836.	1.2	1
128	Is discrimination enhanced at a category boundary? The case of unique red. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, A260.	1.5	1
129	Separation in the visual field has divergent effects on discriminating the speed and the direction of motion. Current Biology, 2020, 30, R1250-R1251.	3.9	1
130	â€˜The last channelâ€™: vision at the temporal margin of the field. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200607.	2.6	1
131	Horizontal lines in the MacLeod-Boynton diagram: Saturation discrimination and hue discrimination compared. Journal of Vision, 2019, 19, 7.	0.3	1
132	Association studies of the DRD3 dopamine receptor gene and the NT-3 (neurotrophin-3) gene in unrelated schizophrenics. Schizophrenia Research, 1996, 18, 163.	2.0	0
133	2005 Verriest Medal awarded to Professor John D. Mollon. Visual Neuroscience, 2006, 23, ii-ii.	1.0	0
134	Hemifield differences in spatial and colour discriminations and the mechanisms of sensory comparison. International Journal of Psychophysiology, 2008, 69, 139.	1.0	0
135	Speed and the coherence of superimposed chromatic gratings. Vision Research, 2016, 122, 66-72.	1.4	0
136	Discussion: Biophysics and Psychophysics of Photoreceptors. , 1991, , 35-40.		0
137	The comparison of spatially separated stimuli: judgments of speed. Journal of Vision, 2017, 17, 21.	0.3	0
138	The discrimination of speed when the discriminanda are spatially separated and are moving in the same or in different directions. Journal of Vision, 2017, 17, 46.	0.3	0
139	Cerebral iconics: how are visual stimuli represented centrally in the human brain?. , 2018, 85, 87-94.	0.0	0