John L Barbur

List of Publications by Year
in descending order

63 papers	1,509 citations	361045 20 h-index	344852 36 g-index
69 all docs	69 docs citations	69 times ranked	1217 citing authors

#	Article	IF	Citations
1	Variation of chromatic sensitivity across the life span. Vision Research, 2001, 41, 23-36.	0.7	168
2	Exploring Eye Movements in Patients with Glaucoma When Viewing a Driving Scene. PLoS ONE, 2010, 5, e9710.	1.1	116
3	Supplementation with the carotenoids lutein or zeaxanthin improves human visual performance. Ophthalmic and Physiological Optics, 2006, 26, 362-371.	1.0	109
4	The effects of supplementation with lutein and/or zeaxanthin on human macular pigment density and colour vision. Ophthalmic and Physiological Optics, 2006, 26, 137-147.	1.0	66
5	Pupil response components: studies in patients with Parinaud's syndrome. Brain, 2002, 125, 2296-2307.	3.7	63
6	Pupil responses to stimulus color, structure and light flux increments in the rhesus monkey. Vision Research, 1998, 38, 3353-3358.	0.7	60
7	Colour constancy and conscious perception of changes of illuminant. Neuropsychologia, 2008, 46, 853-863.	0.7	51
8	Pupil response triggered by the onset of coherent motion. Graefe's Archive for Clinical and Experimental Ophthalmology, 1997, 235, 494-500.	1.0	49
9	Mild Hypoxia Impairs Chromatic Sensitivity in the Mesopic Range. , 2008, 49, 820.		48
10	A study of unusual Rayleigh matches in deutan deficiency. Visual Neuroscience, 2008, 25, 507-516.	0.5	47
11	PUPIL RESPONSE AS AN OBJECTIVE MEASURE OF VISUAL ACUITY. Ophthalmic and Physiological Optics, 1987, 7, 425-429.	1.0	43
12	â€˜Double-blindsightâ€™ revealed through the processing of color and luminance contrast defined motion signals. Progress in Brain Research, 2004, 144, 243-259.	0.9	41
13	Transient Smartphone â€œBlindnessâ€• New England Journal of Medicine, 2016, 374, 2502-2504.	13.9	41
14	Effects of higher-order aberrations on contrast acuity as a function of light level. Journal of Modern Optics, 2008, 55, 791-803.	0.6	40
15	Assessing the Severity of Color Vision Loss with Implications for Aviation and Other Occupational Environments. Aviation, Space, and Environmental Medicine, 2012, 83, 19-29.	0.6	40
16	Cortical hyperexcitability and sensitivity to discomfort glare. Neuropsychologia, 2015, 69, 194-200.	0.7	37
17	Measurements of chromatic sensitivity in the mesopic range. Color Research and Application, 2001, 26, S36-S42.	0.8	30
18	A comparative study of stimulus-specific pupil responses in the domestic fowl (Gallus gallus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	0.7	29

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19	Colour vision requirements in visually demanding occupations. British Medical Bulletin, 2017, 122, 51-77.	2.7	27
20	Pupillary function in human amblyopia. Ophthalmic and Physiological Optics, 1994, 14, 139-149.	1.0	25
21	Effective contrast of colored stimuli in the mesopic range: a metric for perceived contrast based on achromatic luminance contrast. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 17.	0.8	24
22	Study of instantaneous color constancy mechanisms in human vision. Journal of Electronic Imaging, 2004, 13, 15.	0.5	21
23	Detection of Early Loss of Color Vision in Age-Related Macular Degeneration â€“ With Emphasis on Drusen and Reticular Pseudodrusen. , 2017, 58, BIO247.		21
24	Color vision tests for aviation: comparison of the anomaloscope and three lantern types. Aviation, Space, and Environmental Medicine, 2005, 76, 421-9.	0.6	19
25	Changes in color vision with decreasing light level: separating the effects of normal aging from disease. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A27.	0.8	18
26	Processing of color signals in female carriers of color vision deficiency. Journal of Vision, 2012, 12, 11-11.	0.1	18
27	Color vision changes in normal aging. , 2015, , 180-196.		18
28	REACTIONâ€TIME DETERMINATION OF THE LATENCY BETWEEN VISUAL SIGNALS GENERATED BY RODS AND CONES. Ophthalmic and Physiological Optics, 1982, 2, 179-185.	1.0	17
29	Low Contrast Acuity at Photopic and Mesopic Luminance Under Mild Hypoxia, Normoxia, and Hyperoxia. Aviation, Space, and Environmental Medicine, 2009, 80, 933-940.	0.6	16
30	Assessment of novel binocular colour, motion and contrast tests in glaucoma. Cell and Tissue Research, 2013, 353, 297-310.	1.5	16
31	Mechanisms for Discomfort Glare in Central Vision. Investigative Ophthalmology and Visual Science, 2015, 56, 464-471.	3.3	16
32	The coupling of vision with locomotion in cortical blindness. Vision Research, 2015, 110, 286-294.	0.7	15
33	Flicker Sensitivity in Normal Agingâ€"Monocular Tests of Retinal Function at Photopic and Mesopic Light Levels. , 2016, 57, 387.		15
34	Effects of hypoxia on color vision with emphasis on the mesopic range. Expert Review of Ophthalmology, 2011, 6, 409-420.	0.3	13
35	A Study of Pupil Response Components in Human Vision. , 1995, , 3-18.		13
36	Color vision assessmentâ€1: Visual signals that affect the results of the Farnsworth Dâ€15 test. Color Research and Application, 2021, 46, 7-20.	0.8	12

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37	Subthreshold addition of real and apparent motion. Vision Research, 1981, 21, 557-564.	0.7	10
38	Age-related change in flicker thresholds with rod- and cone-enhanced stimuli. PLoS ONE, 2020, 15, e0232784.	1.1	10
39	Speed discrimination and its relation to involuntary eye movements in human vision. Neuroscience Letters, 1985, 54, 7-12.	1.0	8
40	Acuity and colour vision changes post intravitreal dexamethasone implant injection in patients with diabetic macular oedema. PLoS ONE, 2018, 13, e0199693.	1.1	8
41	Color vision assessmentâ€3. An efficient, twoâ€step, color assessment protocol. Color Research and Application, 2021, 46, 33-45.	0.8	8
42	Color vision assessmentâ€2: Color assessment outcomes using single and multiâ€test protocols. Color Research and Application, 2021, 46, 21-32.	0.8	8
43	Coloured overlays and precision-tinted lenses: poor repeatability in a sample of adults and children diagnosed with visual stress. Ophthalmic and Physiological Optics, 2017, 37, 542-548.	1.0	7
44	New test to assess pilot's vision following refractive surgery. Aviation, Space, and Environmental Medicine, 2003, 74, 551-9.	0.6	7
45	Quantitative Studies of Some Dynamic Visual Effects. Perception, 1980, 9, 303-316.	0.5	6
46	Severe, persistent visual impairment associated with occipital calcification and coeliac disease. Journal of Neurology, 2015, 262, 2056-2063.	1.8	5
47	Evaluation of photoreceptor function in inherited retinal diseases using rodâ€and coneâ€enhanced flicker stimuli. Ophthalmic and Physiological Optics, 2021, 41, 874-884.	1.0	5
48	The effect of image colour distortion on evaluation of donor liver suitability for transplantation. Computers in Biology and Medicine, 2004, 34, 615-632.	3.9	4
49	The analysis of scattered light effects in hemianopic and normal vision. Behavioral and Brain Sciences, 1983, 6, 448-449.	0.4	3
50	Motion discrimination of single targets: comparison of preliminary findings in normal subjects and patients with glaucoma. Graefe's Archive for Clinical and Experimental Ophthalmology, 1996, 234, 553-560.	1.0	3
51	<title>Experimental studies of instantaneous color constancy: dynamic color matching under rapid changes of illuminant</title>. , 2002, 4662, 298.		3
52	Understanding colour. Trends in Cognitive Sciences, 2003, 7, 434-436.	4.0	2
53	Evidence for Non-Opponent Coding of Colour Information in Human Visual Cortex: Selective Loss of â€œGreenâ€•Sensitivity in a Subject with Damaged Ventral Occipito-Temporal Cortex. Neuro-Ophthalmology, 2011, 35, 1-6.	0.4	2
54	Color Vision in Clinical Practice. , 2016, , 269-315.		2

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55	A NEW PHOTOGRAPHIC-BASED SYSTEM FOR THE MEASUREMENT OF CONTRAST SENSITIVITY. Ophthalmic and Physiological Optics, 1986, 6, 407-414.	1.0	1
56	Changes in forward light scatter parameters as a function of refractive error in young adults. Graefe's Archive for Clinical and Experimental Ophthalmology, 2020, 258, 925-930.	1.0	1
57	REACTION-TIME DETERMINATION OF THE LATENCY BETWEEN VISUAL SIGNALS GENERATED BY RODS AND CONES. , 1982, 2, 179.		1
58	Relationship Between Flicker Modulation Sensitivity and Retinal Ganglion Cell Related Layer Thicknesses. Translational Vision Science and Technology, 2021, 10, 16.	1.1	1
59	Impact of symptomatic vitreous degeneration on photopic and mesopic contrast thresholds. Australasian journal of optometry, The, 2022, 105, 609-616.	0.6	1
60	Aging of visual mechanisms. Progress in Brain Research, 2022, , .	0.9	1
61	A novel method for the photometric evaluation of searchlights. Measurement Science and Technology, 1997, 8, 117-122.	1.4	0
62	Author's reply. Ophthalmic and Physiological Optics, 2018, 38, 469-469.	1.0	0
63	33rd International Pupil Colloquium, Murcia, Universidad de Murcia (Spain); 2ndâ€“4th October 2019. Ophthalmic and Physiological Optics, 2020, 40, 376-376.	1.0	0