

John L Barbur

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,160

citations

20

h-index

32

g-index

69

ext. papers

1,324

ext. citations

4.3

avg, IF

4.39

L-index

#	Paper	IF	Citations
62	Variation of chromatic sensitivity across the life span. <i>Vision Research</i> , 2001 , 41, 23-36	2.1	142
61	Supplementation with the carotenoids lutein or zeaxanthin improves human visual performance. <i>Ophthalmic and Physiological Optics</i> , 2006 , 26, 362-71	4.1	102
60	Exploring eye movements in patients with glaucoma when viewing a driving scene. <i>PLoS ONE</i> , 2010 , 5, e9710	3.7	95
59	The effects of supplementation with lutein and/or zeaxanthin on human macular pigment density and colour vision. <i>Ophthalmic and Physiological Optics</i> , 2006 , 26, 137-47	4.1	58
58	Pupil responses to stimulus color, structure and light flux increments in the rhesus monkey. <i>Vision Research</i> , 1998 , 38, 3353-8	2.1	46
57	Pupil response components: studies in patients with Parinaud's syndrome. <i>Brain</i> , 2002 , 125, 2296-307	11.2	46
56	Colour constancy and conscious perception of changes of illuminant. <i>Neuropsychologia</i> , 2008 , 46, 853-63	3.2	42
55	A study of unusual Rayleigh matches in deutan deficiency. <i>Visual Neuroscience</i> , 2008 , 25, 507-16	1.7	41
54	Mild hypoxia impairs chromatic sensitivity in the mesopic range. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 820-7		38
53	Double-blindness revealed through the processing of color and luminance contrast defined motion signals. <i>Progress in Brain Research</i> , 2004 , 144, 243-59	2.9	37
52	Pupil response triggered by the onset of coherent motion. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 1997 , 235, 494-500	3.8	31
51	Effects of higher-order aberrations on contrast acuity as a function of light level. <i>Journal of Modern Optics</i> , 2008 , 55, 791-803	1.1	29
50	PUPIL RESPONSE AS AN OBJECTIVE MEASURE OF VISUAL ACUITY*. <i>Ophthalmic and Physiological Optics</i> , 1987 , 7, 425-429	4.1	29
49	Assessing the severity of color vision loss with implications for aviation and other occupational environments. <i>Aviation, Space, and Environmental Medicine</i> , 2012 , 83, 19-29		26
48	Measurements of chromatic sensitivity in the mesopic range. <i>Color Research and Application</i> , 2001 , 26, S36-S42	1.3	26
47	Transient Smartphone "Blindness". <i>New England Journal of Medicine</i> , 2016 , 374, 2502-4	59.2	25
46	Cortical hyperexcitability and sensitivity to discomfort glare. <i>Neuropsychologia</i> , 2015 , 69, 194-200	3.2	25

45	A comparative study of stimulus-specific pupil responses in the domestic fowl (<i>Gallus gallus domesticus</i>) and the human. <i>Vision Research</i> , 2002 , 42, 249-55	2.1	22
44	Pupillary function in human amblyopia. <i>Ophthalmic and Physiological Optics</i> , 1994 , 14, 139-49	4.1	22
43	Effective contrast of colored stimuli in the mesopic range: a metric for perceived contrast based on achromatic luminance contrast. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005 , 22, 17-28	1.8	21
42	Study of instantaneous color constancy mechanisms in human vision. <i>Journal of Electronic Imaging</i> , 2004 , 13, 15	0.7	16
41	Colour vision requirements in visually demanding occupations. <i>British Medical Bulletin</i> , 2017 , 122, 51-77	5.4	15
40	Color vision tests for aviation: comparison of the anomaloscope and three lantern types. <i>Aviation, Space, and Environmental Medicine</i> , 2005 , 76, 421-9		15
39	Detection of Early Loss of Color Vision in Age-Related Macular Degeneration - With Emphasis on Drusen and Reticular Pseudodrusen 2017 , 58, BIO247-BIO254		14
38	Mechanisms for discomfort glare in central vision. <i>Investigative Ophthalmology and Visual Science</i> , 2014 , 56, 464-71		13
37	Flicker Sensitivity in Normal Aging--Monocular Tests of Retinal Function at Photopic and Mesopic Light Levels 2016 , 57, 387-95		13
36	Assessment of novel binocular colour, motion and contrast tests in glaucoma. <i>Cell and Tissue Research</i> , 2013 , 353, 297-310	4.2	12
35	The coupling of vision with locomotion in cortical blindness. <i>Vision Research</i> , 2015 , 110, 286-94	2.1	11
34	Color vision changes in normal aging 180-196		11
33	Low contrast acuity at photopic and mesopic luminance under mild hypoxia, normoxia, and hyperoxia. <i>Aviation, Space, and Environmental Medicine</i> , 2009 , 80, 933-40		11
32	REACTION-TIME DETERMINATION OF THE LATENCY BETWEEN VISUAL SIGNALS GENERATED BY RODS AND CONES. <i>Ophthalmic and Physiological Optics</i> , 1982 , 2, 179-185	4.1	11
31	Effects of hypoxia on color vision with emphasis on the mesopic range. <i>Expert Review of Ophthalmology</i> , 2011 , 6, 409-420	1.5	10
30	Changes in color vision with decreasing light level: separating the effects of normal aging from disease. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, A27-35	1.8	10
29	Subthreshold addition of real and apparent motion. <i>Vision Research</i> , 1981 , 21, 557-64	2.1	10
28	Processing of color signals in female carriers of color vision deficiency. <i>Journal of Vision</i> , 2012 , 12,	0.4	7

27	Age-related change in flicker thresholds with rod- and cone-enhanced stimuli. <i>PLoS ONE</i> , 2020 , 15, e0232784	3.7	7
26	A Study of Pupil Response Components in Human Vision 1995 , 3-18		7
25	New test to assess pilot's vision following refractive surgery. <i>Aviation, Space, and Environmental Medicine</i> , 2003 , 74, 551-9		7
24	Speed discrimination and its relation to involuntary eye movements in human vision. <i>Neuroscience Letters</i> , 1985 , 54, 7-12	3.3	6
23	Acuity and colour vision changes post intravitreal dexamethasone implant injection in patients with diabetic macular oedema. <i>PLoS ONE</i> , 2018 , 13, e0199693	3.7	6
22	Severe, persistent visual impairment associated with occipital calcification and coeliac disease. <i>Journal of Neurology</i> , 2015 , 262, 2056-63	5.5	5
21	Coloured overlays and precision-tinted lenses: poor repeatability in a sample of adults and children diagnosed with visual stress. <i>Ophthalmic and Physiological Optics</i> , 2017 , 37, 542-548	4.1	5
20	Quantitative studies of some dynamic visual effects. <i>Perception</i> , 1980 , 9, 303-16	1.2	5
19	Color vision assessment-3. An efficient, two-step, color assessment protocol. <i>Color Research and Application</i> , 2021 , 46, 33-45	1.3	4
18	Color vision assessment-2: Color assessment outcomes using single and multi-test protocols. <i>Color Research and Application</i> , 2021 , 46, 21-32	1.3	4
17	The effect of image colour distortion on evaluation of donor liver suitability for transplantation. <i>Computers in Biology and Medicine</i> , 2004 , 34, 615-32	7	3
16	Evaluation of photoreceptor function in inherited retinal diseases using rod- and cone-enhanced flicker stimuli. <i>Ophthalmic and Physiological Optics</i> , 2021 , 41, 874-884	4.1	3
15	Color vision assessment-1: Visual signals that affect the results of the Farnsworth D-15 test. <i>Color Research and Application</i> , 2021 , 46, 7-20	1.3	3
14	Evidence for Non-Opponent Coding of Colour Information in Human Visual Cortex: Selective Loss of "Green" Sensitivity in a Subject with Damaged Ventral Occipito-Temporal Cortex. <i>Neuro-Ophthalmology</i> , 2011 , 35, 1-6	0.9	2
13	Understanding colour. <i>Trends in Cognitive Sciences</i> , 2003 , 7, 434-436	14	2
12	Experimental studies of instantaneous color constancy: dynamic color matching under rapid changes of illuminant 2002 , 4662, 298		2
11	Motion discrimination of single targets: comparison of preliminary findings in normal subjects and patients with glaucoma. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 1996 , 234, 553-60	3.8	2
10	Changes in forward light scatter parameters as a function of refractive error in young adults. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2020 , 258, 925-930	3.8	1

9	A new photographic-based system for the measurement of contrast sensitivity. <i>Ophthalmic and Physiological Optics</i> , 1986 , 6, 407-14	4.1	1
8	The analysis of scattered light effects in hemianopic and normal vision. <i>Behavioral and Brain Sciences</i> , 1983 , 6, 448-449	0.9	1
7	REACTION-TIME DETERMINATION OF THE LATENCY BETWEEN VISUAL SIGNALS GENERATED BY RODS AND CONES 1982 , 2, 179		1
6	Color Vision in Clinical Practice 2016 , 269-315		1
5	Impact of symptomatic vitreous degeneration on photopic and mesopic contrast thresholds. <i>Australasian journal of optometry, The</i> , 2021 , 1-8	2.7	0
4	Aging of visual mechanisms. <i>Progress in Brain Research</i> , 2022 ,	2.9	0
3	Author's reply. <i>Ophthalmic and Physiological Optics</i> , 2018 , 38, 469	4.1	
2	A novel method for the photometric evaluation of searchlights. <i>Measurement Science and Technology</i> , 1997 , 8, 117-122	2	
1	Relationship Between Flicker Modulation Sensitivity and Retinal Ganglion Cell Related Layer Thicknesses. <i>Translational Vision Science and Technology</i> , 2021 , 10, 16	3.3	