List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluating the Visibility of Architectural Features for People with Low Vision – A Quantitative Approach. LEUKOS - Journal of Illuminating Engineering Society of North America, 2022, 18, 154-172.	2.9	2
2	Visual and Auditory Spatial Localization in Younger and Older Adults. Frontiers in Aging Neuroscience, 2022, 14, 838194.	3.4	3
3	How can basic research on spatial cognition enhance the visual accessibility of architecture for people with low vision?. Cognitive Research: Principles and Implications, 2021, 6, 3.	2.0	4
4	Simulated central vision loss impairs implicit location probability learning. Cortex, 2021, 138, 241-252.	2.4	8
5	Simulating Visibility and Reading Performance in Low Vision. Frontiers in Neuroscience, 2021, 15, 671121.	2.8	3
6	Evaluation and Comparison of Artificial Intelligence Vision Aids: Orcam MyEye 1 and Seeing AI. Journal of Visual Impairment and Blindness, 2021, 115, 277-285.	0.7	14
7	A Unified Rule for Binocular Contrast Summation Applies to Normal Vision and Common Eye Diseases. , 2021, 62, 6.		4
8	Validating a model of architectural hazard visibility with low-vision observers. PLoS ONE, 2021, 16, e0260267.	2.5	0
9	Reconciling print-size and display-size constraints on reading. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30276-30284.	7.1	8
10	Online Survey of Digital Reading by Adults with Low Vision. Optometry and Vision Science, 2020, 97, 249-256.	1.2	8
11	Relationship Between Acuity and Contrast Sensitivity: Differences Due to Eye Disease. , 2020, 61, 40.		21
12	Spatial attentional learning in simulated central vision loss. Journal of Vision, 2020, 20, 577.	0.3	0
13	Preserved tactile acuity in older pianists. Attention, Perception, and Psychophysics, 2019, 81, 2619-2625.	1.3	4
14	Visual factors in reading. Vision Research, 2019, 161, 60-62.	1.4	3
15	Extending the MNREAD sentence corpus: Computer-generated sentences for measuring visual performance in reading. Vision Research, 2019, 158, 11-18.	1.4	16
16	Reading with letter transpositions in central and peripheral vision. Journal of Vision, 2019, 19, 17.	0.3	4
17	Gaze behavior during navigation with reduced acuity. Experimental Eye Research, 2019, 183, 20-28.	2.6	4
18	Effects of age and target modality on spatial localization on the horizontal plane. Journal of Vision, 2019, 19, 117b.	0.3	1

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19	Training peripheral vision to read: Boosting the speed of letter processing. Vision Research, 2018, 152, 51-60.	1.4	11
20	Fonts Designed for Macular Degeneration: Impact on Reading. , 2018, 59, 4182.		22
21	How People with Low Vision Achieve Magnification in Digital Reading. Optometry and Vision Science, 2018, 95, 711-719.	1.2	15
22	Reading Acuity as a Predictor of Low-Vision Reading Performance. , 2018, 59, 4798.		15
23	Beneficial Effects of Spatial Remapping for Reading With Simulated Central Field Loss. , 2018, 59, 1105.		11
24	Comparing performance on the MNREAD iPad application with the MNREAD acuity chart. Journal of Vision, 2018, 18, 8.	0.3	44
25	Comparing the minimum spatial-frequency content for recognizing Chinese and alphabet characters. Journal of Vision, 2018, 18, 1.	0.3	8
26	Common constraints limit Korean and English character recognition in peripheral vision. Journal of Vision, 2018, 18, 5.	0.3	5
27	Korean reading speed: Effects of print size and retinal eccentricity. Vision Research, 2018, 150, 8-14.	1.4	7
28	Remote Sighted Assistants for Indoor Location Sensing of Visually Impaired Pedestrians. ACM Transactions on Applied Perception, 2017, 14, 1-14.	1.9	9
29	Simulating visibility under reduced acuity and contrast sensitivity. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 583.	1.5	17
30	Linking crowding, visual span, and reading. Journal of Vision, 2017, 17, 11.	0.3	12
31	Does Vertical Reading Help People with Macular Degeneration: An Exploratory Study. PLoS ONE, 2017, 12, e0170743.	2.5	7
32	Indoor Spatial Updating With Impaired Vision. , 2016, 57, 6757.		9
33	Comparing the Shape of Contrast Sensitivity Functions for Normal and Low Vision. , 2016, 57, 198.		61
34	Baseline MNREAD Measures for Normally Sighted Subjects From Childhood to Old Age. , 2016, 57, 3836.		62
35	Indoor Spatial Updating with Reduced Visual Information. PLoS ONE, 2016, 11, e0150708.	2.5	17
36	Low Vision and Plasticity: Implications for Rehabilitation. Annual Review of Vision Science, 2016, 2, 321-343.	4.4	28

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37	Development of a Reading Accessibility Index Using the MNREAD Acuity Chart. JAMA Ophthalmology, 2016, 134, 398.	2.5	50
38	Reading Digital with Low Vision. Visible Language, 2016, 50, 102-125.	0.4	65
39	Comparing the visual spans for faces and letters. Journal of Vision, 2015, 15, 7.	0.3	9
40	Locating the cortical bottleneck for slow reading in peripheral vision. Journal of Vision, 2015, 15, 3.	0.3	7
41	Designing Media for Visually-Impaired Users of Refreshable Touch Displays: Possibilities and Pitfalls. IEEE Transactions on Haptics, 2015, 8, 248-257.	2.7	74
42	Incidental Memory of Younger and Older Adults for Objects Encountered in a Real World Context. PLoS ONE, 2014, 9, e99051.	2.5	5
43	Effect of pattern complexity on the visual span for Chinese and alphabet characters. Journal of Vision, 2014, 14, 6-6.	0.3	41
44	Prentice Medal Lecture 2013. Optometry and Vision Science, 2014, 91, 696-706.	1.2	3
45	Sensory factors limiting horizontal and vertical visual span for letter recognition. Journal of Vision, 2014, 14, 3-3.	0.3	22
46	Learning to Read Vertical Text in Peripheral Vision. Optometry and Vision Science, 2014, 91, 1097-1105.	1.2	10
47	Higher-contrast requirements for recognizing low-pass-filtered letters. Journal of Vision, 2013, 13, 13-13.	0.3	35
48	Recognition of Ramps and Steps by People with Low Vision. , 2013, 54, 288.		25
49	Sensory and cognitive influences on the training-related improvement of reading speed in peripheral vision. Journal of Vision, 2013, 13, 14-14.	0.3	34
50	Driving With Central Field Loss. JAMA Ophthalmology, 2013, 131, 393.	2.5	3
51	Combining Path Integration and Remembered Landmarks When Navigating without Vision. PLoS ONE, 2013, 8, e72170.	2.5	19
52	Indoor Navigation by People with Visual Impairment Using a Digital Sign System. PLoS ONE, 2013, 8, e76783.	2.5	68
53	Identification and Detection of Simple 3D Objects with Severely Blurred Vision. , 2012, 53, 7997.		6
54	Theories of reading should predict reading speed. Behavioral and Brain Sciences, 2012, 35, 297-298.	0.7	2

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55	Seeing Steps and Ramps with Simulated Low Acuity. Optometry and Vision Science, 2012, 89, E1299-E1307.	1.2	23
56	New Challenges in Low-Vision Research. Optometry and Vision Science, 2012, 89, 1244-1245.	1.2	7
57	Spatial-frequency requirements for reading revisited. Vision Research, 2012, 62, 139-147.	1.4	31
58	THE PREFERRED RETINAL LOCUS IN MACULAR DISEASE. Retina, 2011, 31, 2109-2114.	1.7	86
59	Spatial-frequency cutoff requirements for pattern recognition in central and peripheral vision. Vision Research, 2011, 51, 1995-2007.	1.4	34
60	Does print size matter for reading? A review of findings from vision science and typography. Journal of Vision, 2011, 11, 8-8.	0.3	180
61	Development of a training protocol to improve reading performance in peripheral vision. Vision Research, 2010, 50, 36-45.	1.4	45
62	Reading speed in the peripheral visual field of older adults: Does it benefit from perceptual learning?. Vision Research, 2010, 50, 860-869.	1.4	57
63	Assessment of Indoor Route-finding Technology for People who are Visually Impaired. Journal of Visual Impairment and Blindness, 2010, 104, 135-147.	0.7	41
64	Comparing reading speed for horizontal and vertical English text. Journal of Vision, 2010, 10, 1-17.	0.3	72
65	Training improves reading speed in peripheral vision: Is it due to attention?. Journal of Vision, 2010, 10, 18-18.	0.3	19
66	Incomplete Cortical Reorganization in Macular Degeneration. , 2010, 51, 6826.		57
67	Visual accessibility of ramps and steps. Journal of Vision, 2010, 10, 8-8.	0.3	24
68	Spatial learning and navigation using a virtual verbal display. ACM Transactions on Applied Perception, 2010, 7, 1-22.	1.9	8
69	Do image descriptions underlie word recognition in reading?. British Journal of Psychology, 2010, 101, 33-39.	2.3	1
70	Assessment of Indoor Route-finding Technology for People with Visual Impairment. Journal of Visual Impairment and Blindness, 2010, 104, 135-147.	0.7	9
71	Precision of position signals for letters. Vision Research, 2009, 49, 1948-1960.	1.4	40
72	Retinotopically Specific Reorganization of Visual Cortex for Tactile Pattern Recognition. Current Biology, 2009, 19, 596-601.	3.9	31

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73	Adaptive changes in visual cortex following prolonged contrast reduction. Journal of Vision, 2009, 9, 20-20.	0.3	70
74	Camera calibration for natural image studies and vision research. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 30.	1.5	20
75	Retention of high tactile acuity throughout the life span in blindness. Perception & Psychophysics, 2008, 70, 1471-1488.	2.3	111
76	Relationship between visual span and reading performance in age-related macular degeneration. Vision Research, 2008, 48, 577-588.	1.4	61
77	The development of an automated sentence generator for the assessment of reading speed. Behavioral and Brain Functions, 2008, 4, 14.	3.3	13
78	The Low Vision Timeline: An Interactive History. Visual Impairment Research, 2008, 10, 67-75.	0.2	7
79	Nonlinear Mixed-Effects Modeling of MNREAD Data. , 2008, 49, 828.		51
80	Learning Building Layouts with Non-Geometric Visual Information: The Effects of Visual Impairment and Age. Perception, 2008, 37, 1677-1699.	1.2	29
81	To the Editor: Reliability Testing of the Dutch Version of the Radner Reading Charts. Optometry and Vision Science, 2008, 85, 1201-1202.	1.2	3
82	Effect of letter spacing on visual span and reading speed. Journal of Vision, 2007, 7, 2.	0.3	109
83	The case for the visual span as a sensory bottleneck in reading. Journal of Vision, 2007, 7, 9.	0.3	124
84	Variability in stepping direction explains the veering behavior of blind walkers Journal of Experimental Psychology: Human Perception and Performance, 2007, 33, 183-200.	0.9	50
85	Relationship between slow visual processing and reading speed in people with macular degeneration. Vision Research, 2007, 47, 2943-2955.	1.4	42
86	Developmental changes in the visual span for reading. Vision Research, 2007, 47, 2889-2900.	1.4	74
87	Wayfinding with words: spatial learning and navigation using dynamically updated verbal descriptions. Psychological Research, 2007, 71, 347-358.	1.7	54
88	Low-Vision Reading Speed: Influences of Linguistic Inference and Aging. Optometry and Vision Science, 2006, 83, 166-177.	1.2	30
89	Lost in virtual space: Studies in human and ideal spatial navigation Journal of Experimental Psychology: Human Perception and Performance, 2006, 32, 688-704.	0.9	57
90	The effect of print size on reading speed in dyslexia. Journal of Research in Reading, 2005, 28, 332-349.	2.0	84

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91	Variability in the Length and Frequency of Steps of Sighted and Visually Impaired Walkers. Journal of Visual Impairment and Blindness, 2005, 99, 741-754.	0.7	11
92	Functional and cortical adaptations to central vision loss. Visual Neuroscience, 2005, 22, 187-201.	1.0	161
93	Variability in the Length and Frequency of Steps of Sighted and Visually Impaired Walkers. Journal of Visual Impairment and Blindness, 2005, 99, 741-754.	0.7	4
94	Letter-recognition and reading speed in peripheral vision benefit from perceptual learning. Vision Research, 2004, 44, 695-709.	1.4	135
95	49.1: Invited Paper: Psychophysics of Reading: Implications for Displaying Text. Digest of Technical Papers SID International Symposium, 2004, 35, 1359.	0.3	2
96	Is word recognition different in central and peripheral vision?. Vision Research, 2003, 43, 2837-2846.	1.4	52
97	Preneural limitations on letter identification in central and peripheral vision. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 2349.	1.5	19
98	Spatial-frequency properties of letter identification in amblyopia. Vision Research, 2002, 42, 1571-1581.	1.4	21
99	Spatial-frequency characteristics of letter identification in central and peripheral vision. Vision Research, 2002, 42, 2137-2152.	1.4	112
100	Mr. Chips 2002: new insights from an ideal-observer model of reading. Vision Research, 2002, 42, 2219-2234.	1.4	111
101	Psychophysics of reading. Vision Research, 2001, 41, 725-743.	1.4	355
102	Spatial-frequency and contrast properties of crowding. Vision Research, 2001, 41, 1833-1850.	1.4	243
103	Comment on letter to the editor: is dyslexia caused by a visual deficit? (Skottun, B. C., 2001). Vision Research, 2001, 41, 3071.	1.4	1
104	Invariant Recognition of Natural Objects in the Presence of Shadows. Perception, 2000, 29, 383-398.	1.2	36
105	The effect of contrast on reading speed in dyslexia. Vision Research, 2000, 40, 1921-1935.	1.4	24
106	Saccade Planning in Reading With Central Scotomas: Comparison of Human and Ideal Performance. , 2000, , 667-682.		7
107	What Is Low Vision? A Re-evaluation of Definitions. Optometry and Vision Science, 1999, 76, 198-211.	1.2	94
108	Reading with a Head-Mounted Video Magnifier. Optometry and Vision Science, 1999, 76, 755-763.	1.2	29

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109	Measuring Braille reading speed with the MNREAD test. Visual Impairment Research, 1999, 1, 131-145.	0.2	62
110	The viewpoint complexity of an object-recognition task. Vision Research, 1998, 38, 2335-2350.	1.4	52
111	Psychophysics of reading. XVIII. The effect of print size on reading speed in normal peripheral vision. Vision Research, 1998, 38, 2949-2962.	1.4	230
112	Psychophysics of Reading. XVII. Low-Vision Performance with Four Types of Electronically Magnified Text. Optometry and Vision Science, 1998, 75, 183-190.	1.2	40
113	Motion Parallax: Effects of Blur, Contrast, and Field Size in Normal and Low Vision. Perception, 1997, 26, 1529-1538.	1.2	11
114	Mr. Chips: An ideal-observer model of reading Psychological Review, 1997, 104, 524-553.	3.8	220
115	Psychophysics of reading—XVI. The visual span in normal and low vision. Vision Research, 1997, 37, 1999-2010.	1.4	215
116	The binocular computation of visual direction. Vision Research, 1996, 36, 27-41.	1.4	26
117	Psychophysics of Reading—XIV. The Page Navigation Problem in Using Magnifiers. Vision Research, 1996, 36, 3723-3733.	1.4	51
118	<title>Currency features for visually impaired people</title> . , 1996, 2659, 44.		2
119	The â€~Uniqueness Constraint' and Binocular Masking. Perception, 1995, 24, 49-65.	1.2	30
120	Printed cards for measuring low-vision reading speed. Vision Research, 1995, 35, 1939-1944.	1.4	103
121	Discrimination of compound gratings: Spatial-frequency channels or local features?. Vision Research, 1995, 35, 2685-2695.	1.4	24
122	Human efficiency for recognizing 3-D objects in luminance noise. Vision Research, 1995, 35, 3053-3069.	1.4	143
123	Human efficiency for recognizing and detecting low-pass filtered objects. Vision Research, 1995, 35, 2955-2966.	1.4	60
124	Pictorial depth cues: a new slant. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 17.	1.5	22
125	Stereo matching precedes dichoptic masking. Vision Research, 1994, 34, 1047-1060.	1.4	40
126	Color improves object recognition in normal and low vision Journal of Experimental Psychology: Human Perception and Performance, 1993, 19, 899-911.	0.9	195

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127	Multifocal Intraocular Lenses and Glare. Optometry and Vision Science, 1993, 70, 487-495.	1.2	11
128	Glenn A. Fry Award Lecture 1990: Three Perspectives on Low Vision Reading. Optometry and Vision Science, 1991, 68, 763-769.	1.2	30
129	Psychophysics of Reading–x. Effects of Age-related Changes in Vision. Journal of Gerontology, 1991, 46, P325-P331.	1.9	70
130	Psychophysics of reading XI Comparing color contrast and luminance contrast. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 2002.	1.5	106
131	Efficiency of graphical perception. Perception & Psychophysics, 1989, 46, 365-374.	2.3	73
132	Stereopsis and contrast. Vision Research, 1989, 29, 989-1004.	1.4	266
133	Psychophysics of reading. VI—The role of contrast in low vision. Vision Research, 1989, 29, 79-91.	1.4	145
134	Psychophysics of Reading. VIII. The Minnesota Low- Vision Reading Test. Optometry and Vision Science, 1989, 66, 843-853.	1.2	293
135	Sensory analysis in vision and audition. Behavioral and Brain Sciences, 1988, 11, 301-302.	0.7	42
136	Reply to J. H. Verbaken. Optometry and Vision Science, 1987, 64, 293-295.	1.2	0
137	Psychophysics of reading—V. The role of contrast in normal vision. Vision Research, 1987, 27, 1165-1177.	1.4	284
138	Contrast discrimination in noise. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 391.	1.5	264
139	Tolerance to visual defocus. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 851.	1.5	131
140	Contrast discrimination in peripheral vision. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 1594.	1.5	50
141	Accommodation to stimuli in peripheral vision. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 1681.	1.5	30
142	Psychophysics of reading IV Wavelength effects in normal and low vision. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 40.	1.5	74
143	The importance of eye movements in the analysis of simple patterns. Vision Research, 1986, 26, 1111-1117.	1.4	96
144	Contrast Sensitivity Function as a Screening Test. Optometry and Vision Science, 1986, 63, 265-270.	1.2	15

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145	Psychophysics of reading—I. Normal vision. Vision Research, 1985, 25, 239-252.	1.4	537
146	Psychophysics of reading—II. Low vision. Vision Research, 1985, 25, 253-265.	1.4	394
147	Binocular contrast summation—I. Detection and discrimination. Vision Research, 1984, 24, 373-383.	1.4	157
148	Binocular contrast summation—II. Quadratic summation. Vision Research, 1984, 24, 385-394.	1.4	191
149	Symmetry and constancy in the perception of negative and positive luminance contrast. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1984, 1, 309.	1.5	50
150	Learning unfamiliar voices Journal of Experimental Psychology: Learning Memory and Cognition, 1984, 10, 298-303.	0.9	70
151	Convergence accommodation. Journal of the Optical Society of America, 1983, 73, 332.	1.2	31
152	Light and dark bars; contrast discrimination. Vision Research, 1983, 23, 473-483.	1.4	89
153	Contrast detection and near-threshold discrimination in human vision. Vision Research, 1981, 21, 1041-1053.	1.4	281
154	Displacement detection in human vision. Vision Research, 1981, 21, 205-213.	1.4	93
155	A power law for perceived contrast in human vision. Vision Research, 1981, 21, 791-799.	1.4	45
156	A power law for contrast discrimination. Vision Research, 1981, 21, 457-467.	1.4	258
157	Binocular interactions in suprathreshold contrast perception. Perception & Psychophysics, 1981, 30, 49-61.	2.3	121
158	Contrast masking in human vision. Journal of the Optical Society of America, 1980, 70, 1458.	1.2	1,095
159	Spatial frequency masking in human vision: binocular interactions. Journal of the Optical Society of America, 1979, 69, 838.	1.2	209
160	Space domain properties of a spatial frequency channel in human vision. Vision Research, 1978, 18, 959-969.	1.4	52
161	Sustained and transient mechanisms in human vision: Temporal and spatial properties. Vision Research, 1978, 18, 69-81.	1.4	413
162	Spatial-Frequency Masking with Briefly Pulsed Patterns. Perception, 1978, 7, 161-166.	1.2	7

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163	Adaptation to a spatial impulse: Implications for Fourier transform models of visual processing. Vision Research, 1976, 16, 1407-1418.	1.4	16

164 Psychophysics of Reading in Normal and Low Vision. , 0, , .