Steven C Dakin

List of Publications by Year
in descending order

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132	7,616	53794	58581
papers	citations	45 h-index	82 g-index

139	139	139	5280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integration of visual motion and orientation signals in dyslexic children: an equivalent noise approach. Royal Society Open Science, 2022, 9, 200414.	2.4	2
2	The Effect of Induced Intraocular Stray Light on Recognition Thresholds for Pseudo-High-Pass Filtered Letters. Translational Vision Science and Technology, 2022, 11, 4.	2.2	1
3	Diagnosis of colour vision deficits using eye movements. Scientific Reports, 2022, 12, 7734.	3.3	2
4	Phase 2a randomised controlled feasibility trial of a new â€˜balanced binocular viewingâ€™ treatment for unilateral amblyopia in children age 3â€“8 years: trial protocol. BMJ Open, 2022, 12, e051423.	1.9	1
5	Balanced, Orientation-Dependent Dichoptic Masking in Cortex of Visually Normal Humans Measured Using Electroencephalography (EEG). , 2021, 2021, 5901-5904.		1
6	Evaluation of vision screening of 5â€“15â€yearâ€old children in three Tongan schools: comparison of The Auckland Optotypes and Lea symbols. Australasian journal of optometry, The, 2020, 103, 353-360.	1.3	2
7	The effect of refractive error on optokinetic nystagmus. Scientific Reports, 2020, 10, 20062.	3.3	6
8	The Effect of Simulated Visual Field Loss on Optokinetic Nystagmus. Translational Vision Science and Technology, 2020, 9, 25.	2.2	6
9	Impact of Children's Postural Variation on Viewing Distance and Estimated Visual Acuity. Translational Vision Science and Technology, 2019, 8, 16.	2.2	6
10	Semantic content outweighs low-level saliency in determining childrenâ€™s and adultsâ€™ fixation of movies. Journal of Experimental Child Psychology, 2018, 166, 293-309.	1.4	27
11	Recognition acuity in children measured using The Auckland Optotypes. Ophthalmic and Physiological Optics, 2018, 38, 596-608.	2.0	4
12	The Auckland Optotypes: An open-access pictogram set for measuring recognition acuity. Journal of Vision, 2018, 18, 13.	0.3	18
13	A comparison of tests for quantifying sensory eye dominance. Vision Research, 2018, 153, 60-69.	1.4	23
14	Visual Population Receptive Fields in People with Schizophrenia Have Reduced Inhibitory Surrounds. Journal of Neuroscience, 2017, 37, 1546-1556.	3.6	49
15	Visual integration of direction and orientation information in autistic children. Autism and Developmental Language Impairments, 2017, 2, 239694151769462.	1.6	17
16	Comparing averaging limits for social cues over space and time. Journal of Vision, 2017, 17, 17.	0.3	8
17	Binocular Therapy for Childhood Amblyopia Improves Vision Without Breaking Interocular Suppression. , 2017, 58, 3031.		69
18	Cortical magnification factor of human V2 predicts individual susceptibility to letter-crowding. Journal of Vision, 2017, 17, 396.	0.3	0

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19	Direction and orientation integration in autistic children. Journal of Vision, 2017, 17, 1103.	0.3	0
20	Visual acuity loss in patients with age-related macular degeneration measured using a novel high-pass letter chart. British Journal of Ophthalmology, 2016, 100, 1346-1352.	3.9	25
21	Spatial limitations in averaging social cues. Scientific Reports, 2016, 6, 32210.	3.3	28
22	Similar contrast sensitivity functions measured using psychophysics and optokinetic nystagmus. Scientific Reports, 2016, 6, 34514.	3.3	24
23	Adaptable history biases in human perceptual decisions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3548-57.	7.1	160
24	Summary Statistics for Gaze and Head Direction over Time. Journal of Vision, 2016, 16, 499.	0.3	0
25	Similar estimates of contrast sensitivity and acuity from psychophysics and automated analysis of optokinetic nystagmus. Journal of Vision, 2016, 16, 1331.	0.3	1
26	Metamorphopsia and interocular suppression in monocular and binocular maculopathy. Acta Ophthalmologica, 2015, 93, e318-e320.	1.1	8
27	Peripheral processing of gaze.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 1084-1094.	0.9	19
28	Spatial-frequency dependent binocular imbalance in amblyopia. Scientific Reports, 2015, 5, 17181.	3.3	61
29	Novel Quantitative Assessment of Metamorphopsia in Maculopathy. Investigative Ophthalmology and Visual Science, 2015, 56, 494-504.	3.3	29
30	A Statistical Analysis of Metamorphopsia in 7106 Amsler Grids. Ophthalmology, 2015, 122, 431-433.	5.2	9
31	Enhanced Integration of Motion Information in Children With Autism. Journal of Neuroscience, 2015, 35, 6979-6986.	3.6	62
32	Local and Global Limits on Visual Processing in Schizophrenia. PLoS ONE, 2015, 10, e0117951.	2.5	26
33	Averaging of Social Cues Using Equivalent Noise. Journal of Vision, 2015, 15, 1220.	0.3	0
34	Interocular differences in crowding and their variation across the visual field. Journal of Vision, 2015, 15, 108.	0.3	0
35	Metamorphopsia and letter recognition. Journal of Vision, 2014, 14, 1-1.	0.3	16
36	Effect of Scoring and Termination Rules on Testâ€“Retest Variability of a Novel High-Pass Letter Acuity Chart. , 2014, 55, 1386.		25

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37	An Inability to Exclude Visual Noise in Migraine. , 2014, 55, 2539.		52
38	A texture-processing model of the â€˜visual sense of numberâ€™. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141137.	2.6	64
39	Averaging, not internal noise, limits the development of coherent motion processing. Developmental Cognitive Neuroscience, 2014, 10, 44-56.	4.0	36
40	Sensitivity to numerosity is not a unique visuospatial psychophysical predictor of mathematical ability. Vision Research, 2013, 89, 1-9.	1.4	41
41	Shifting mirrors: adaptive changes in retinal reflections to winter darkness in Arctic reindeer. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20132451.	2.6	29
42	Orientation-crowding within contours. Journal of Vision, 2013, 13, 14-14.	0.3	4
43	Reduced Crowding and Poor Contour Detection in Schizophrenia Are Consistent with Weak Surround Inhibition. PLoS ONE, 2013, 8, e60951.	2.5	29
44	Visual Surround Suppression in Schizophrenia. Frontiers in Psychology, 2013, 4, 88.	2.1	80
45	Effect of Optical Defocus on Detection and Recognition of Vanishing Optotype Letters in the Fovea and Periphery. , 2012, 53, 7063.		21
46	Visual Search with Image Modification in Age-Related Macular Degeneration. , 2012, 53, 6600.		17
47	The Clinical Translation of a Measure of Gain Control: The Contrast-Contrast Effect Task. Schizophrenia Bulletin, 2012, 38, 135-143.	4.3	68
48	Clinical, Functional, and Intertask Correlations of Measures Developed by the Cognitive Neuroscience Test Reliability and Clinical Applications for Schizophrenia Consortium. Schizophrenia Bulletin, 2012, 38, 144-152.	4.3	83
49	The Neural Correlates of Crowding-Induced Changes in Appearance. Current Biology, 2012, 22, 1199-1206.	3.9	84
50	Visual Acuity, Crowding, and Stereo-Vision Are Linked in Children with and without Amblyopia. , 2012, 53, 7655.		43
51	Effects of Peripheral Visual Field Loss on Eye Movements During Visual Search. Frontiers in Psychology, 2012, 3, 472.	2.1	36
52	Number and density discrimination rely on a common metric: Similar psychophysical effects of size, contrast, and divided attention. Journal of Vision, 2012, 12, 8-8.	0.3	75
53	Crowding follows the binding of relative position and orientation. Journal of Vision, 2012, 12, 18-18.	0.3	31
54	The role of crowding in contextual influences on contour integration. Journal of Vision, 2012, 12, 3-3.	0.3	17

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55	Detection and resolution of vanishing optotype letters in central and peripheral vision. Vision Research, 2012, 59, 9-16.	1.4	11
56	Quantifying "the aperture problem" for judgments of motion direction in natural scenes. Journal of Vision, 2011, 11, 25-25.	0.3	13
57	Vanishing Optotype acuity: repeatability and effect of the number of alternatives. Ophthalmic and Physiological Optics, 2011, 31, 17-22.	2.0	25
58	Psychophysical measures of visual acuity in autism spectrum conditions. Vision Research, 2011, 51, 1778-1780.	1.4	55
59	Crowding is tuned for perceived (not physical) location. Journal of Vision, 2011, 11, 2-2.	0.3	27
60	A common visual metric for approximate number and density. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19552-19557.	7.1	235
61	The utility of image descriptions in the initial stages of vision: A case study of printed text. British Journal of Psychology, 2010, 101, 1-26.	2.3	15
62	Authors' response to commentaries. British Journal of Psychology, 2010, 101, 41-46.	2.3	1
63	Crowding Changes Appearance. Current Biology, 2010, 20, 496-501.	3.9	89
64	Horizontal information drives the behavioral signatures of face processing. Frontiers in Psychology, 2010, 1, 143.	2.1	63
65	Anisotropies in judging the direction of moving natural scenes. Journal of Vision, 2010, 10, 5-5.	0.3	7
66	Probabilistic, positional averaging predicts object-level crowding effects with letter-like stimuli. Journal of Vision, 2010, 10, 14-14.	0.3	58
67	Biological "bar codes" in human faces. Journal of Vision, 2009, 9, 2-2.	0.3	137
68	The aperture problem in contoured stimuli. Journal of Vision, 2009, 9, 13-13.	0.3	8
69	Context influences contour integration. Journal of Vision, 2009, 9, 13-13.	0.3	56
70	Monocular signals in human lateral geniculate nucleus reflect the Craik-Cornsweet-O'Brien effect. Journal of Vision, 2009, 9, 14-14.	0.3	18
71	Deficits in local and global motion perceptionarising from abnormal eye movements. Journal of Vision, 2009, 9, 9-9.	0.3	6
72	Positional averaging explains crowding with letter-like stimuli. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13130-13135.	7.1	181

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73	Dissociable effects of attention and crowding on orientation averaging. Journal of Vision, 2009, 9, 28-28.	0.3	74
74	Psychophysical evidence for a non-linear representation of facial identity. Vision Research, 2009, 49, 2285-2296.	1.4	19
75	Vision: Thinking Globally, Acting Locally. Current Biology, 2009, 19, R851-R854.	3.9	5
76	Regarding â€œEagle-Eyed Visual Acuity: An Experimental Investigation of Enhanced Perception in Autismâ€• Biological Psychiatry, 2009, 66, e19-e20.	1.3	28
77	Finding and Discriminating Faces Using Biological Barcodes. , 2009, , .		0
78	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. Journal of Vision, 2009, 9, 1-1.	0.3	116
79	Visually-based temporal distortion in dyslexia. Vision Research, 2008, 48, 1852-1858.	1.4	54
80	Local motion processing limits fine direction discrimination in the periphery. Vision Research, 2008, 48, 1719-1725.	1.4	11
81	The development of an automated sentence generator for the assessment of reading speed. Behavioral and Brain Functions, 2008, 4, 14.	3.3	13
82	Visual Perception and Its Impairment in Schizophrenia. Biological Psychiatry, 2008, 64, 40-47.	1.3	378
83	Sparsely distributed contours dominate extra-striate responses to complex scenes. NeuroImage, 2008, 42, 890-901.	4.2	24
84	Families of models for gabor paths demonstrate the importance of spatial adjacency. Journal of Vision, 2008, 8, 23.	0.3	37
85	Contrast gain control in natural scenes. Journal of Vision, 2007, 7, 12.	0.3	37
86	Illusory Stimuli Can Be Used to Identify Retinal Blind Spots. PLoS ONE, 2007, 2, e1060.	2.5	8
87	Integration of local motion is normal in amblyopia. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 986.	1.5	36
88	Flank facilitation and contour integration: Different sites. Vision Research, 2006, 46, 3699-3706.	1.4	50
89	Dynamic properties of orientation discrimination assessed by using classification images. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5131-5136.	7.1	35
90	Weak suppression of visual context in chronic schizophrenia. Current Biology, 2005, 15, R822-R824.	3.9	192

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91	An oblique effect for local motion: Psychophysics and natural movie statistics. Journal of Vision, 2005, 5, 9.	0.3	47
92	Critical band masking in optic flow. Network: Computation in Neural Systems, 2005, 16, 261-284.	3.6	17
93	Local and global limitations on direction integration assessed using equivalent noise analysis. Vision Research, 2005, 45, 3027-3049.	1.4	125
94	Integration, segregation, and binocular combination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 38.	1.5	14
95	Spatial interference among moving targets. Vision Research, 2005, 45, 1385-1398.	1.4	37
96	Vagaries of Visual Perception in Autism. Neuron, 2005, 48, 497-507.	8.1	606
97	Integration of orientation information in amblyopia. Vision Research, 2004, 44, 2955-2969.	1.4	28
98	Theories of developmental dyslexia: insights from a multiple case study of dyslexic adults. Brain, 2003, 126, 841-865.	7.6	1,068
99	Integration of first- and second-order orientation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 974.	1.5	14
100	Motion detection and the coincidence of structure at high and low spatial frequencies. Vision Research, 2003, 43, 371-383.	1.4	9
101	Response to Wilson & Wilkinson: Evidence for global processing but no evidence for specialised detectors in the visual processing of Glass patterns. Vision Research, 2003, 43, 565-566.	1.4	8
102	How many positions can we perceptually encode, one or many?. Vision Research, 2003, 43, 1575-1587.	1.4	13
103	Grouping local directional signals into moving contours. Vision Research, 2003, 43, 2141-2153.	1.4	20
104	The shape and size of crowding for moving targets. Vision Research, 2003, 43, 2895-2904.	1.4	70
105	Natural image statistics mediate brightness â€˜filling inâ€™. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2341-2348.	2.6	86
106	Comparison of the spatial-frequency selectivity of local and global motion detectors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 670.	1.5	35
107	Role of synchrony in contour binding: some transient doubts sustained. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 678.	1.5	31
108	Summation of concentric orientation structure: seeing the Glass or the window?. Vision Research, 2002, 42, 2013-2020.	1.4	45

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109	What causes non-monotonic tuning of fMRI response to noisy images?. Current Biology, 2002, 12, R476-R477.	3.9	104
110	Information limit on the spatial integration of local orientation signals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1016.	1.5	137
111	Contour interaction in amblyopia: scale selection. Vision Research, 2001, 41, 2285-2296.	1.4	44
112	Snakes and ladders: the role of temporal modulation in visual contour integration. Vision Research, 2001, 41, 3775-3782.	1.4	59
113	Local and global visual grouping: Tuning for spatial frequency and contrast. Journal of Vision, 2001, 1, 4.	0.3	47
114	Contour interaction in fovea and periphery. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1516.	1.5	40
115	Impoverished second-order input to global linking in human vision. Vision Research, 2000, 40, 3309-3318.	1.4	29
116	Sensitivity to contrast modulation depends on carrier spatial frequency and orientation. Vision Research, 2000, 40, 311-329.	1.4	90
117	The foveal â€˜crowdingâ€™ effect: physics or physiology?. Vision Research, 2000, 40, 365-370.	1.4	70
118	The role of relative motion computation in â€˜direction repulsionâ€™. Vision Research, 2000, 40, 833-841.	1.4	27
119	Orientation variance as a quantifier of structure in texture. Spatial Vision, 1999, 12, 1-30.	1.4	37
120	Contour integration and scale combination processes in visual edge detection. Spatial Vision, 1999, 12, 309-327.	1.4	31
121	Contour integration in the peripheral field. Vision Research, 1999, 39, 947-959.	1.4	58
122	The interaction of first- and second-order cues to orientation. Vision Research, 1999, 39, 2867-2884.	1.4	57
123	Are judgements of circularity local or global?. Vision Research, 1999, 39, 4354-4360.	1.4	92
124	The role of â€œcontrast enhancementâ€•in the detection and appearance of visual contours. Vision Research, 1998, 38, 783-787.	1.4	63
125	The spatial region of integration for visual symmetry detection. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 659-664.	2.6	77
126	Glass Patterns: Some Contrast Effects Re-Evaluated. Perception, 1997, 26, 253-268.	1.2	25

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127	The spatial mechanisms mediating symmetry perception. Vision Research, 1997, 37, 2915-2930.	1.4	80
128	The detection of structure in glass patterns: Psychophysics and computational models. Vision Research, 1997, 37, 2227-2246.	1.4	82
129	The computation of orientation statistics from visual texture. Vision Research, 1997, 37, 3181-3192.	1.4	190
130	Absence of contour linking in peripheral vision. Nature, 1997, 390, 602-604.	27.8	132
131	Detection of bilateral symmetry using spatial filters. Spatial Vision, 1994, 8, 393-413.	1.4	95
132	Seeing Statistical Regularities. , 0, , .		6