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	Theories of developmental dyslexia: insights from a multiple case study of dyslexic adults. Brain, 2003, 126, 841-865.	7.6	1,068
2	Vagaries of Visual Perception in Autism. Neuron, 2005, 48, 497-507.	8.1	606
3	Visual Perception and Its Impairment in Schizophrenia. Biological Psychiatry, 2008, 64, 40-47.	1.3	378
4	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
5	Weak suppression of visual context in chronic schizophrenia. Current Biology, 2005, 15, R822-R824.	3.9	192
6	The computation of orientation statistics from visual texture. Vision Research, 1997, 37, 3181-3192.	1.4	190
7	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
8	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
9	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
10	Biological "bar codes" in human faces. Journal of Vision, 2009, 9, 2-2.	0.3	137
11	Absence of contour linking in peripheral vision. Nature, 1997, 390, 602-604.	27.8	132
12	Local and global limitations on direction integration assessed using equivalent noise analysis. Vision Research, 2005, 45, 3027-3049.	1.4	125
13	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. Journal of Vision, 2009, 9, 1-1.	0.3	116
14	What causes non-monotonic tuning of fMRI response to noisy images?. Current Biology, 2002, 12, R476-R477.	3.9	104
15	Detection of bilateral symmetry using spatial filters. Spatial Vision, 1994, 8, 393-413.	1.4	95
16	Are judgements of circularity local or global?. Vision Research, 1999, 39, 4354-4360.	1.4	92
17	Sensitivity to contrast modulation depends on carrier spatial frequency and orientation. Vision Research, 2000, 40, 311-329.	1.4	90
18	Crowding Changes Appearance. Current Biology, 2010, 20, 496-501.	3.9	89

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19	Natural image statistics mediate brightness â€˜filling inâ€™. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2341-2348.	2.6	86
20	The Neural Correlates of Crowding-Induced Changes in Appearance. Current Biology, 2012, 22, 1199-1206.	3.9	84
21	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
22	The detection of structure in glass patterns: Psychophysics and computational models. Vision Research, 1997, 37, 2227-2246.	1.4	82
23	The spatial mechanisms mediating symmetry perception. Vision Research, 1997, 37, 2915-2930.	1.4	80
24	Visual Surround Suppression in Schizophrenia. Frontiers in Psychology, 2013, 4, 88.	2.1	80
25	The spatial region of integration for visual symmetry detection. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 659-664.	2.6	77
26	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
27	Dissociable effects of attention and crowding on orientation averaging. Journal of Vision, 2009, 9, 28-28.	0.3	74
28	The foveal â€˜crowdingâ€™ effect: physics or physiology?. Vision Research, 2000, 40, 365-370.	1.4	70
29	The shape and size of crowding for moving targets. Vision Research, 2003, 43, 2895-2904.	1.4	70
30	Binocular Therapy for Childhood Amblyopia Improves Vision Without Breaking Interocular Suppression. , 2017, 58, 3031.		69
31	The Clinical Translation of a Measure of Gain Control: The Contrast-Contrast Effect Task. Schizophrenia Bulletin, 2012, 38, 135-143.	4.3	68
32	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
33	The role of â€œcontrast enhancementâ€•in the detection and appearance of visual contours. Vision Research, 1998, 38, 783-787.	1.4	63
34	Horizontal information drives the behavioral signatures of face processing. Frontiers in Psychology, 2010, 1, 143.	2.1	63
35	Enhanced Integration of Motion Information in Children With Autism. Journal of Neuroscience, 2015, 35, 6979-6986.	3.6	62
36	Spatial-frequency dependent binocular imbalance in amblyopia. Scientific Reports, 2015, 5, 17181.	3.3	61

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37	Snakes and ladders: the role of temporal modulation in visual contour integration. Vision Research, 2001, 41, 3775-3782.	1.4	59
38	Contour integration in the peripheral field. Vision Research, 1999, 39, 947-959.	1.4	58
39	Probabilistic, positional averaging predicts object-level crowding effects with letter-like stimuli. Journal of Vision, 2010, 10, 14-14.	0.3	58
40	The interaction of first- and second-order cues to orientation. Vision Research, 1999, 39, 2867-2884.	1.4	57
41	Context influences contour integration. Journal of Vision, 2009, 9, 13-13.	0.3	56
42	Psychophysical measures of visual acuity in autism spectrum conditions. Vision Research, 2011, 51, 1778-1780.	1.4	55
43	Visually-based temporal distortion in dyslexia. Vision Research, 2008, 48, 1852-1858.	1.4	54
44	An Inability to Exclude Visual Noise in Migraine. , 2014, 55, 2539.		52
45	Flank facilitation and contour integration: Different sites. Vision Research, 2006, 46, 3699-3706.	1.4	50
46	Visual Population Receptive Fields in People with Schizophrenia Have Reduced Inhibitory Surrounds. Journal of Neuroscience, 2017, 37, 1546-1556.	3.6	49
47	Local and global visual grouping: Tuning for spatial frequency and contrast. Journal of Vision, 2001, 1, 4.	0.3	47
48	An oblique effect for local motion: Psychophysics and natural movie statistics. Journal of Vision, 2005, 5, 9.	0.3	47
49	Summation of concentric orientation structure: seeing the Glass or the window?. Vision Research, 2002, 42, 2013-2020.	1.4	45
50	Contour interaction in amblyopia: scale selection. Vision Research, 2001, 41, 2285-2296.	1.4	44
51	Visual Acuity, Crowding, and Stereo-Vision Are Linked in Children with and without Amblyopia. , 2012, 53, 7655.		43
52	Sensitivity to numerosity is not a unique visuospatial psychophysical predictor of mathematical ability. Vision Research, 2013, 89, 1-9.	1.4	41
53	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
54	Orientation variance as a quantifier of structure in texture. Spatial Vision, 1999, 12, 1-30.	1.4	37

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55	Spatial interference among moving targets. Vision Research, 2005, 45, 1385-1398.	1.4	37
56	Contrast gain control in natural scenes. Journal of Vision, 2007, 7, 12.	0.3	37
57	Families of models for gabor paths demonstrate the importance of spatial adjacency. Journal of Vision, 2008, 8, 23.	0.3	37
58	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
59	Effects of Peripheral Visual Field Loss on Eye Movements During Visual Search. Frontiers in Psychology, 2012, 3, 472.	2.1	36
60	Averaging, not internal noise, limits the development of coherent motion processing. Developmental Cognitive Neuroscience, 2014, 10, 44-56.	4.0	36
61	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
62	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
63	Contour integration and scale combination processes in visual edge detection. Spatial Vision, 1999, 12, 309-327.	1.4	31
64	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
65	Crowding follows the binding of relative position and orientation. Journal of Vision, 2012, 12, 18-18.	0.3	31
66	Impoverished second-order input to global linking in human vision. Vision Research, 2000, 40, 3309-3318.	1.4	29
67	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
68	Reduced Crowding and Poor Contour Detection in Schizophrenia Are Consistent with Weak Surround Inhibition. PLoS ONE, 2013, 8, e60951.	2.5	29
69	Novel Quantitative Assessment of Metamorphopsia in Maculopathy. Investigative Ophthalmology and Visual Science, 2015, 56, 494-504.	3.3	29
70	Integration of orientation information in amblyopia. Vision Research, 2004, 44, 2955-2969.	1.4	28
71	Regarding â€œEagle-Eyed Visual Acuity: An Experimental Investigation of Enhanced Perception in Autismâ€• Biological Psychiatry, 2009, 66, e19-e20.	1.3	28
72	Spatial limitations in averaging social cues. Scientific Reports, 2016, 6, 32210.	3.3	28

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73	The role of relative motion computation in â€˜direction repulsionâ€™. Vision Research, 2000, 40, 833-841.	1.4	27
74	Crowding is tuned for perceived (not physical) location. Journal of Vision, 2011, 11, 2-2.	0.3	27
75	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
76	Local and Global Limits on Visual Processing in Schizophrenia. PLoS ONE, 2015, 10, e0117951.	2.5	26
77	Glass Patterns: Some Contrast Effects Re-Evaluated. Perception, 1997, 26, 253-268.	1.2	25
78	Vanishing Optotype acuity: repeatability and effect of the number of alternatives. Ophthalmic and Physiological Optics, 2011, 31, 17-22.	2.0	25
79	Effect of Scoring and Termination Rules on Testâ€“Retest Variability of a Novel High-Pass Letter Acuity Chart. , 2014, 55, 1386.		25
80	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
81	Sparsely distributed contours dominate extra-striate responses to complex scenes. NeuroImage, 2008, 42, 890-901.	4.2	24
82	Similar contrast sensitivity functions measured using psychophysics and optokinetic nystagmus. Scientific Reports, 2016, 6, 34514.	3.3	24
83	A comparison of tests for quantifying sensory eye dominance. Vision Research, 2018, 153, 60-69.	1.4	23
84	Effect of Optical Defocus on Detection and Recognition of Vanishing Optotype Letters in the Fovea and Periphery. , 2012, 53, 7063.		21
85	Grouping local directional signals into moving contours. Vision Research, 2003, 43, 2141-2153.	1.4	20
86	Psychophysical evidence for a non-linear representation of facial identity. Vision Research, 2009, 49, 2285-2296.	1.4	19
87	Peripheral processing of gaze.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 1084-1094.	0.9	19
88	Monocular signals in human lateral geniculate nucleus reflect the Craik-Cornsweet-O'Brien effect. Journal of Vision, 2009, 9, 14-14.	0.3	18
89	The Auckland Optotypes: An open-access pictogram set for measuring recognition acuity. Journal of Vision, 2018, 18, 13.	0.3	18
90	Critical band masking in optic flow. Network: Computation in Neural Systems, 2005, 16, 261-284.	3.6	17

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91	Visual Search with Image Modification in Age-Related Macular Degeneration. , 2012, 53, 6600.		17
92	The role of crowding in contextual influences on contour integration. Journal of Vision, 2012, 12, 3-3.	0.3	17
93	Visual integration of direction and orientation information in autistic children. Autism and Developmental Language Impairments, 2017, 2, 239694151769462.	1.6	17
94	Metamorphopsia and letter recognition. Journal of Vision, 2014, 14, 1-1.	0.3	16
95	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
96	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
97	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
98	How many positions can we perceptually encode, one or many?. Vision Research, 2003, 43, 1575-1587.	1.4	13
99	The development of an automated sentence generator for the assessment of reading speed. Behavioral and Brain Functions, 2008, 4, 14.	3.3	13
100	Quantifying "the aperture problem" for judgments of motion direction in natural scenes. Journal of Vision, 2011, 11, 25-25.	0.3	13
101	Local motion processing limits fine direction discrimination in the periphery. Vision Research, 2008, 48, 1719-1725.	1.4	11
102	Detection and resolution of vanishing optotype letters in central and peripheral vision. Vision Research, 2012, 59, 9-16.	1.4	11
103	Motion detection and the coincidence of structure at high and low spatial frequencies. Vision Research, 2003, 43, 371-383.	1.4	9
104	A Statistical Analysis of Metamorphopsia in 7106 Amsler Grids. Ophthalmology, 2015, 122, 431-433.	5.2	9
105	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
106	The aperture problem in contoured stimuli. Journal of Vision, 2009, 9, 13-13.	0.3	8
107	Metamorphopsia and interocular suppression in monocular and binocular maculopathy. Acta Ophthalmologica, 2015, 93, e318-e320.	1.1	8
108	Comparing averaging limits for social cues over space and time. Journal of Vision, 2017, 17, 17.	0.3	8

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109	Illusory Stimuli Can Be Used to Identify Retinal Blind Spots. PLoS ONE, 2007, 2, e1060.	2.5	8
110	Anisotropies in judging the direction of moving natural scenes. Journal of Vision, 2010, 10, 5-5.	0.3	7
111	Deficits in local and global motion perceptionarising from abnormal eye movements. Journal of Vision, 2009, 9, 9-9.	0.3	6
112	Impact of Children's Postural Variation on Viewing Distance and Estimated Visual Acuity. Translational Vision Science and Technology, 2019, 8, 16.	2.2	6
113	The effect of refractive error on optokinetic nystagmus. Scientific Reports, 2020, 10, 20062.	3.3	6
114	The Effect of Simulated Visual Field Loss on Optokinetic Nystagmus. Translational Vision Science and Technology, 2020, 9, 25.	2.2	6
115	Seeing Statistical Regularities. , 0, , .		6
116	Vision: Thinking Globally, Acting Locally. Current Biology, 2009, 19, R851-R854.	3.9	5
117	Orientation-crowding within contours. Journal of Vision, 2013, 13, 14-14.	0.3	4
118	Recognition acuity in children measured using The Auckland Optotypes. Ophthalmic and Physiological Optics, 2018, 38, 596-608.	2.0	4
119	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
120	Integration of visual motion and orientation signals in dyslexic children: an equivalent noise approach. Royal Society Open Science, 2022, 9, 200414.	2.4	2
121	Diagnosis of colour vision deficits using eye movements. Scientific Reports, 2022, 12, 7734.	3.3	2
122	Authors' response to commentaries. British Journal of Psychology, 2010, 101, 41-46.	2.3	1
123	Similar estimates of contrast sensitivity and acuity from psychophysics and automated analysis of optokinetic nystagmus. Journal of Vision, 2016, 16, 1331.	0.3	1
124	Balanced, Orientation-Dependent Dichoptic Masking in Cortex of Visually Normal Humans Measured Using Electroencephalography (EEG). , 2021, 2021, 5901-5904.		1
125	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
126	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

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127	Finding and Discriminating Faces Using Biological Barcodes. , 2009, , .		0
128	Averaging of Social Cues Using Equivalent Noise. Journal of Vision, 2015, 15, 1220.	0.3	0
129	Interocular differences in crowding and their variation across the visual field. Journal of Vision, 2015, 15, 108.	0.3	0
130	Summary Statistics for Gaze and Head Direction over Time. Journal of Vision, 2016, 16, 499.	0.3	0
131	Cortical magnification factor of human V2 predicts individual susceptibility to letter-crowding. Journal of Vision, 2017, 17, 396.	0.3	0
132	Direction and orientation integration in autistic children. Journal of Vision, 2017, 17, 1103.	0.3	0