

Martin S Banks

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

12,952
citations

36303

51
h-index

51608

86
g-index

90
all docs

90
docs citations

90
times ranked

6442
citing authors

#	ARTICLE	IF	CITATIONS
1	Humans integrate visual and haptic information in a statistically optimal fashion. <i>Nature</i> , 2002, 415, 429-433.	27.8	3,906
2	Vergence-“accommodation conflicts hinder visual performance and cause visual fatigue. <i>Journal of Vision</i> , 2008, 8, 33.	0.3	1,201
3	The zone of comfort: Predicting visual discomfort with stereo displays. <i>Journal of Vision</i> , 2011, 11, 11-11.	0.3	472
4	Infant pattern vision: A new approach based on the contrast sensitivity function. <i>Journal of Experimental Child Psychology</i> , 1981, 31, 1-45.	1.4	349
5	The perception of heading during eye movements. <i>Nature</i> , 1992, 360, 583-585.	27.8	315
6	A stereo display prototype with multiple focal distances. <i>ACM Transactions on Graphics</i> , 2004, 23, 804-813.	7.2	257
7	Focus cues affect perceived depth. <i>Journal of Vision</i> , 2005, 5, 7.	0.3	250
8	Estimating heading during eye movements. <i>Vision Research</i> , 1994, 34, 3197-3214.	1.4	241
9	High-speed switchable lens enables the development of a volumetric stereoscopic display. <i>Optics Express</i> , 2009, 17, 15716.	3.4	233
10	A Bayesian model of the disambiguation of gravito-inertial force by visual cues. <i>Experimental Brain Research</i> , 2007, 179, 263-290.	1.5	214
11	Touch can change visual slant perception. <i>Nature Neuroscience</i> , 2000, 3, 69-73.	14.8	211
12	Depth of focus, eye size and visual acuity. <i>Vision Research</i> , 1980, 20, 827-835.	1.4	203
13	Auditory dominance over vision in the perception of interval duration. <i>Experimental Brain Research</i> , 2009, 198, 49-57.	1.5	202
14	Horizontal and vertical disparity, eye position, and stereoscopic slant perception. <i>Vision Research</i> , 1999, 39, 1143-1170.	1.4	200
15	The physical limits of grating visibility. <i>Vision Research</i> , 1987, 27, 1915-1924.	1.4	188
16	Perceiving heading with different retinal regions and types of optic flow. <i>Perception & Psychophysics</i> , 1993, 53, 325-337.	2.3	171
17	Optimal Compensation for Changes in Task-Relevant Movement Variability. <i>Journal of Neuroscience</i> , 2005, 25, 7169-7178.	3.6	156
18	Why Is Spatial Stereoresolution So Low?. <i>Journal of Neuroscience</i> , 2004, 24, 2077-2089.	3.6	147

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19	Estimating heading during real and simulated eye movements. <i>Vision Research</i> , 1996, 36, 431-443.	1.4	144
20	Why pictures look right when viewed from the wrong place. <i>Nature Neuroscience</i> , 2005, 8, 1401-1410.	14.8	142
21	Vestibular Heading Discrimination and Sensitivity to Linear Acceleration in Head and World Coordinates. <i>Journal of Neuroscience</i> , 2010, 30, 9084-9094.	3.6	140
22	Gravity as a Monocular Cue for Perception of Absolute Distance and/or Absolute Size. <i>Perception</i> , 1992, 21, 69-76.	1.2	139
23	Viewing Geometry Determines How Vision and Haptics Combine in Size Perception. <i>Current Biology</i> , 2003, 13, 483-488.	3.9	138
24	Why do animal eyes have pupils of different shapes?. <i>Science Advances</i> , 2015, 1, e1500391.	10.3	136
25	Gravitational acceleration as a cue for absolute size and distance?. <i>Perception & Psychophysics</i> , 1996, 58, 1066-1075.	2.3	132
26	Visual self-motion perception during head turns. <i>Nature Neuroscience</i> , 1998, 1, 732-737.	14.8	132
27	Blur and Disparity Are Complementary Cues to Depth. <i>Current Biology</i> , 2012, 22, 426-431.	3.9	128
28	Natural-Scene Statistics Predict How the Figureâ€™s Ground Cue of Convexity Affects Human Depth Perception. <i>Journal of Neuroscience</i> , 2010, 30, 7269-7280.	3.6	116
29	Using blur to affect perceived distance and size. <i>ACM Transactions on Graphics</i> , 2010, 29, 1-16.	7.2	113
30	Infant Refraction and Accommodation. <i>International Ophthalmology Clinics</i> , 1980, 20, 205-232.	0.7	106
31	Sensitivity loss in odd-symmetric mechanisms and phase anomalies in peripheral vision. <i>Nature</i> , 1987, 326, 873-876.	27.8	99
32	Perceived head-centric speed is affected by both extra-retinal and retinal errors. <i>Vision Research</i> , 1998, 38, 941-945.	1.4	93
33	Stereopsis is adaptive for the natural environment. <i>Science Advances</i> , 2015, 1, .	10.3	92
34	Optimal presentation of imagery with focus cues on multi-plane displays. <i>ACM Transactions on Graphics</i> , 2015, 34, 1-12.	7.2	87
35	Accommodation and comfort in head-mounted displays. <i>ACM Transactions on Graphics</i> , 2017, 36, 1-11.	7.2	85
36	Creating effective focus cues in multi-plane 3D displays. <i>Optics Express</i> , 2011, 19, 20940.	3.4	82

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37	Visualâ€“Haptic Adaptation Is Determined by Relative Reliability. <i>Journal of Neuroscience</i> , 2010, 30, 7714-7721.	3.6	80
38	Adaptation to three-dimensional distortions in human vision. <i>Nature Neuroscience</i> , 2001, 4, 1063-1064.	14.8	78
39	Optical, receptor, and retinal constraints on foveal and peripheral vision in the human neonate. <i>Vision Research</i> , 1998, 38, 3857-3870.	1.4	76
40	Are corresponding points fixed?. <i>Vision Research</i> , 2001, 41, 2457-2473.	1.4	73
41	Misperceptions in stereoscopic displays. , 2008, 2008, 23-32.		72
42	The effects of contrast, spatial scale, and orientation on foveal and peripheral phase discrimination. <i>Vision Research</i> , 1991, 31, 1759-1786.	1.4	70
43	Estimator Reliability and Distance Scaling in Stereoscopic Slant Perception. <i>Perception</i> , 1999, 28, 217-242.	1.2	70
44	Limits of stereopsis explained by local cross-correlation. <i>Journal of Vision</i> , 2009, 9, 8-8.	0.3	70
45	Extra-retinal and perspective cues cause the small range of the induced effect. <i>Vision Research</i> , 1998, 38, 187-194.	1.4	67
46	Contrast sensitivity function of the infant visual system. <i>Vision Research</i> , 1976, 16, 867-III.	1.4	66
47	Infant Visual Preferences: A Review and New Theoretical Treatment. <i>Advances in Child Development and Behavior</i> , 1985, 19, 207-246.	1.3	63
48	Does chromatic sensitivity develop more slowly than luminance sensitivity?. <i>Vision Research</i> , 1993, 33, 2553-2562.	1.4	61
49	Ideal observer for heading judgments. <i>Vision Research</i> , 1996, 36, 471-490.	1.4	60
50	The rate of change of vergenceâ€“accommodation conflict affects visual discomfort. <i>Vision Research</i> , 2014, 105, 159-165.	1.4	59
51	Dynamic lens and monovision 3D displays to improve viewer comfort. <i>Optics Express</i> , 2016, 24, 11808.	3.4	59
52	Depth information and perceived self-motion during simulated gaze rotations. <i>Vision Research</i> , 1998, 38, 3129-3145.	1.4	54
53	The Limits of Human Stereopsis in Space and Time. <i>Journal of Neuroscience</i> , 2014, 34, 1397-1408.	3.6	54
54	Temporal presentation protocols in stereoscopic displays: Flicker visibility, perceived motion, and perceived depth. <i>Journal of the Society for Information Display</i> , 2011, 19, 271-297.	2.1	53

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55	Temporal mechanisms of multimodal binding. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1761-1769.	2.6	47
56	The perceptual basis of common photographic practice. <i>Journal of Vision</i> , 2012, 12, 8-8.	0.3	47
57	3D Displays. <i>Annual Review of Vision Science</i> , 2016, 2, 397-435.	4.4	47
58	Temporal contrast sensitivity in human infants. <i>Vision Research</i> , 1992, 32, 1163-1168.	1.4	46
59	The surface of the empirical horopter. <i>Journal of Vision</i> , 2008, 8, 7.	0.3	46
60	Binocular Eye Movements Are Adapted to the Natural Environment. <i>Journal of Neuroscience</i> , 2019, 39, 2877-2888.	3.6	46
61	The development of basic mechanisms of pattern vision: Spatial frequency channels. <i>Journal of Experimental Child Psychology</i> , 1985, 40, 501-527.	1.4	43
62	The effect of head tilt on meridional differences in acuity: Implications for orientation constancy. <i>Perception & Psychophysics</i> , 1975, 17, 17-22.	2.3	39
63	Blur and the perception of depth at occlusions. <i>Journal of Vision</i> , 2016, 16, 17.	0.3	37
64	The vertical horopter is not adaptable, but it may be adaptive. <i>Journal of Vision</i> , 2011, 11, 20-20.	0.3	35
65	Relative image size, not eye position, determines eye dominance switches. <i>Vision Research</i> , 2004, 44, 229-234.	1.4	32
66	Extraretinal and retinal amplitude and phase errors during Filehne illusion and path perception. <i>Perception & Psychophysics</i> , 2000, 62, 900-909.	2.3	29
67	The natural statistics of blur. <i>Journal of Vision</i> , 2016, 16, 23.	0.3	29
68	An analysis of binocular slant contrast. <i>Perception</i> , 1999, 28, 1121-1145.	1.2	23
69	The effects of luminance on FPL and VEP acuity in human infants. <i>Vision Research</i> , 1992, 32, 2005-2012.	1.4	21
70	Scotopic visual efficiency: Constraints by optics, receptor properties, and rod pooling. <i>Vision Research</i> , 1992, 32, 645-656.	1.4	21
71	Camera Focal Length and the Perception of Pictures. <i>Ecological Psychology</i> , 2014, 26, 30-46.	1.1	19
72	Human Stereopsis Is Not Limited by the Optics of the Well-Focused Eye. <i>Journal of Neuroscience</i> , 2011, 31, 9814-9818.	3.6	14

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73	Stereoscopic depth constancy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150253.	4.0	14
74	Crossed“uncrossed projections from primate retina are adapted to disparities of natural scenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
75	240Hz OLED technology properties that can enable improved image quality. <i>Journal of the Society for Information Display</i> , 2014, 22, 346-356.	2.1	13
76	Visual discomfort with stereo 3D displays when the head is not upright. <i>Proceedings of SPIE</i> , 2012, 8288, 828814.	0.8	12
77	65.1: Effective Spatial Resolution of Temporally and Spatially Interlaced Stereo 3D Televisions. <i>Digest of Technical Papers SID International Symposium</i> , 2012, 43, 879-882.	0.3	9
78	Stereoscopic 3D display technique using spatiotemporal interlacing has improved spatial and temporal properties. <i>Optics Express</i> , 2015, 23, 9252.	3.4	9
79	Perception of 3-D Layout in Stereo Displays. <i>Information Display</i> , 2009, 25, 12-16.	0.2	9
80	Motion artifacts on 240-Hz OLED stereoscopic 3D displays. <i>Journal of the Society for Information Display</i> , 2014, 22, 393-403.	2.1	8
81	Stereoscopic 3D display with color interlacing improves perceived depth. <i>Optics Express</i> , 2014, 22, 31924.	3.4	7
82	Neuroscience: What You See and Hear Is What You Get. <i>Current Biology</i> , 2004, 14, R236-R238.	3.9	6
83	Solving Parallax Error for 3D Eye Tracking. , 2021, , .		5
84	The venetian-blind effect: a preference for zero disparity or zero slant?. <i>Frontiers in Psychology</i> , 2013, 4, 836.	2.1	4
85	Visible Artifacts and Limitations in Stereoscopic 3D Displays. <i>Information Display</i> , 2017, 33, 12-17.	0.2	4
86	The blur horopter: Retinal conjugate surface in binocular viewing. <i>Journal of Vision</i> , 2021, 21, 8.	0.3	4
87	Consequences of Incorrect Focus Cues in Stereo Displays. <i>Journal of the Society for Information Display</i> , 2008, 24, 7.	2.1	4
88	Optics and neural adaptation jointly limit human stereovision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	3
89	Integrating High Fidelity Eye, Head and World Tracking in a Wearable Device. , 2021, , .		0