

Peter J Bex

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,731
citations

304602

22
h-index

360920

35
g-index

83
all docs

83
docs citations

83
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the Tobii EyeX Eye tracking controller and Matlab toolkit for research. Behavior Research Methods, 2017, 49, 923-946.	2.3	126
2	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. Journal of Vision, 2009, 9, 1-1.	0.1	116
3	Patterns of functional vision loss in glaucoma determined with archetypal analysis. Journal of the Royal Society Interface, 2015, 12, 20141118.	1.5	87
4	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis. , 2019, 60, 365.		78
5	The Assessment of Visual Function and Functional Vision. Seminars in Pediatric Neurology, 2019, 31, 30-40.	1.0	72
6	Binocular Therapy for Childhood Amblyopia Improves Vision Without Breaking Interocular Suppression. , 2017, 58, 3031.		69
7	Spatial-frequency dependent binocular imbalance in amblyopia. Scientific Reports, 2015, 5, 17181.	1.6	61
8	A Unifying Model of Orientation Crowding in Peripheral Vision. Current Biology, 2015, 25, 3213-3219.	1.8	60
9	(In) Sensitivity to spatial distortion in natural scenes. Journal of Vision, 2010, 10, 1-15.	0.1	57
10	Assessing Suppression in Amblyopic Children With a Dichoptic Eye Chart. , 2016, 57, 5649.		50
11	Assessing Binocular Interaction in Amblyopia and Its Clinical Feasibility. PLoS ONE, 2014, 9, e100156.	1.1	47
12	Peri-Saccadic Natural Vision. Journal of Neuroscience, 2013, 33, 1211-1217.	1.7	45
13	Effect of Brimonidine on Retinal Vascular Autoregulation and Short-term Visual Function in Normal Tension Glaucoma. American Journal of Ophthalmology, 2014, 158, 105-112.e1.	1.7	45
14	Contrast gain control in natural scenes. Journal of Vision, 2007, 7, 12.	0.1	37
15	Integrating Retinotopic Features in Spatiotopic Coordinates. Journal of Neuroscience, 2014, 34, 7351-7360.	1.7	36
16	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. Ophthalmology, 2018, 125, 352-360.	2.5	36
17	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. JAMA Ophthalmology, 2020, 138, 190.	1.4	36
18	The perception of suprathreshold contrast and fast adaptive filtering. Journal of Vision, 2007, 7, 1.	0.1	35

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19	Simulated disparity and peripheral blur interact during binocular fusion. <i>Journal of Vision</i> , 2014, 14, 13-13.	0.1	33
20	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. <i>Ophthalmology</i> , 2020, 127, 731-738.	2.5	33
21	Clinical Correlates of Computationally Derived Visual Field Defect Archetypes in Patients from a Glaucoma Clinic. <i>Current Eye Research</i> , 2017, 42, 568-574.	0.7	31
22	Abnormal white matter tractography of visual pathways detected by high-angular-resolution diffusion imaging (HARDI) corresponds to visual dysfunction in cortical/cerebral visual impairment. <i>Journal of AAPOS</i> , 2014, 18, 398-401.	0.2	29
23	Novel Quantitative Assessment of Metamorphopsia in Maculopathy. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 494-504.	3.3	29
24	Evaluation of the precision of contrast sensitivity function assessment on a tablet device. <i>Scientific Reports</i> , 2017, 7, 46706.	1.6	27
25	Stereoacuity in the periphery is limited by internal noise. <i>Journal of Vision</i> , 2012, 12, 12-12.	0.1	26
26	Binocular Summation and Suppression of Contrast Sensitivity in Strabismus, Fusion and Amblyopia. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 234.	1.0	23
27	An Artificial Intelligence Approach to Assess Spatial Patterns of Retinal Nerve Fiber Layer Thickness Maps in Glaucoma. <i>Translational Vision Science and Technology</i> , 2020, 9, 41.	1.1	23
28	Three-dimensional binocular eye-hand coordination in normal vision and with simulated visual impairment. <i>Experimental Brain Research</i> , 2018, 236, 691-709.	0.7	22
29	Relationship Between Central Retinal Vessel Trunk Location and Visual Field Loss in Glaucoma. <i>American Journal of Ophthalmology</i> , 2017, 176, 53-60.	1.7	20
30	The (In)Effectiveness of Simulated Blur for Depth Perception in Naturalistic Images. <i>PLoS ONE</i> , 2015, 10, e0140230.	1.1	20
31	Cognitive load influences oculomotor behavior in natural scenes. <i>Scientific Reports</i> , 2021, 11, 12405.	1.6	19
32	Visual crowding is a combination of an increase of positional uncertainty, source confusion, and featural averaging. <i>Scientific Reports</i> , 2017, 7, 45551.	1.6	18
33	Metamorphopsia and letter recognition. <i>Journal of Vision</i> , 2014, 14, 1-1.	0.1	16
34	Mechanisms underlying simultaneous brightness contrast: Early and innate. <i>Vision Research</i> , 2020, 173, 41-49.	0.7	15
35	Near-optimal combination of disparity across a log-polar scaled visual field. <i>PLoS Computational Biology</i> , 2020, 16, e1007699.	1.5	15
36	A space-variant model for motion interpretation across the visual field. <i>Journal of Vision</i> , 2016, 16, 12.	0.1	14

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37	Acute exercise effects on inhibitory control and the pupillary response in young adults. <i>International Journal of Psychophysiology</i> , 2021, 170, 218-228.	0.5	13
38	Monocular and Binocular Contributions to Oculomotor Plasticity. <i>Scientific Reports</i> , 2016, 6, 31861.	1.6	12
39	Local motion processing limits fine direction discrimination in the periphery. <i>Vision Research</i> , 2008, 48, 1719-1725.	0.7	11
40	Perceptual Visual Distortions in Adult Amblyopia and Their Relationship to Clinical Features. , 2015, 56, 5533.		11
41	Reply to Pachai et al.. <i>Current Biology</i> , 2016, 26, R353-R354.	1.8	11
42	Impact of Natural Blind Spot Location on Perimetry. <i>Scientific Reports</i> , 2017, 7, 6143.	1.6	10
43	Binocular contrast summation and inhibition depends on spatial frequency, eccentricity and binocular disparity. <i>Ophthalmic and Physiological Optics</i> , 2018, 38, 525-537.	1.0	10
44	Bayesian adaptive assessment of the reading function for vision: The qReading method. <i>Journal of Vision</i> , 2018, 18, 6.	0.1	10
45	Effects of temporal frequency on binocular deficits in amblyopia. <i>Vision Research</i> , 2019, 163, 52-62.	0.7	10
46	A Statistical Analysis of Metamorphopsia in 7106 Amsler Grids. <i>Ophthalmology</i> , 2015, 122, 431-433.	2.5	9
47	Peripheral oculomotor training in individuals with healthy visual systems: Effects of training and training transfer. <i>Vision Research</i> , 2017, 133, 95-99.	0.7	9
48	Attentional selection and illusory surface appearance. <i>Scientific Reports</i> , 2019, 9, 2227.	1.6	9
49	Visual consciousness dynamics in adults with and without autism. <i>Scientific Reports</i> , 2022, 12, 4376.	1.6	9
50	Predicting Global Testâ€™Retest Variability of Visual Fields in Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021, 4, 390-399.	0.9	8
51	Neural correlates associated with impaired global motion perception in cerebral visual impairment (CVI). <i>NeuroImage: Clinical</i> , 2021, 32, 102821.	1.4	8
52	Reducing the size of the human physiological blind spot through training. <i>Current Biology</i> , 2015, 25, R747-R748.	1.8	7
53	The Linguistic Analysis of Scene Semantics: LASS. <i>Behavior Research Methods</i> , 2020, 52, 2349-2371.	2.3	7
54	Resilience of temporal processing to early and extended visual deprivation. <i>Vision Research</i> , 2021, 186, 80-86.	0.7	7

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55	Assessing visual search performance using a novel dynamic naturalistic scene. <i>Journal of Vision</i> , 2021, 21, 5.	0.1	7
56	On the number of perceivable blur levels in naturalistic images. <i>Vision Research</i> , 2015, 115, 142-150.	0.7	5
57	Inter-Eye Association of Visual Field Defects in Glaucoma and Its Clinical Utility. <i>Translational Vision Science and Technology</i> , 2020, 9, 22.	1.1	5
58	Psychophysical Validation of a Novel Active Learning Approach for Measuring the Visual Acuity Behavioral Function. <i>Translational Vision Science and Technology</i> , 2021, 10, 1.	1.1	5
59	Spatial structure, phase, and the contrast of natural images. <i>Journal of Vision</i> , 2022, 22, 4.	0.1	5
60	Perceived Visual Distortions in Juvenile Amblyopes During/Following Routine Amblyopia Treatment. , 2016, 57, 4045.		4
61	A dichoptic feedback-based oculomotor training method to manipulate interocular alignment. <i>Scientific Reports</i> , 2020, 10, 15634.	1.6	4
62	Effects of Task on Reading Performance Estimates. <i>Frontiers in Psychology</i> , 2020, 11, 2005.	1.1	3
63	Portable Diagnostic System for Age-Related Macular Degeneration Screening Using Visual Evoked Potentials. <i>Eye and Brain</i> , 2021, Volume 13, 111-127.	3.8	3
64	The Effect of Ametropia on Glaucomatous Visual Field Loss. <i>Journal of Clinical Medicine</i> , 2021, 10, 2796.	1.0	3
65	Coding of low-level position and orientation information in human naturalistic vision. <i>PLoS ONE</i> , 2019, 14, e0212141.	1.1	2
66	What Color Was It? A Psychophysical Paradigm for Tracking Subjective Progress in Continuous Tasks. <i>Perception</i> , 2020, 49, 21-38.	0.5	2
67	Visual search performance in cerebral visual impairment is associated with altered alpha band oscillations. <i>Neuropsychologia</i> , 2021, 161, 108011.	0.7	2
68	Gravitational effects of scene information in object localization. <i>Scientific Reports</i> , 2021, 11, 11520.	1.6	1
69	Amblyopia-Related Changes in the Fine-Scale Functional Organization of Human Extrastriate Visual Cortex. <i>Journal of Vision</i> , 2021, 21, 1892.	0.1	1
70	Revealing Differential Mechanisms of Absolute vs. Relative Disparity Encoding in Human Extrastriate Visual Cortex and Impacts of Amblyopia on Them. <i>Journal of Vision</i> , 2021, 21, 1986.	0.1	1
71	Effect of Anthropomorphic Glyph Design on the Accuracy of Categorization Tasks. , 2022, , .		1
72	Enhancing research with Plenary Labs. <i>Science and Public Policy</i> , 2017, 44, 434-439.	1.2	0

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73	Reply. <i>Ophthalmology</i> , 2018, 125, e66-e67.	2.5	0
74	Microsaccades before response initiation reflect angular errors in a manual peripheral localization task. <i>Journal of Vision</i> , 2021, 21, 2220.	0.1	0
75	Editorial: The Contrast Sensitivity Function: From Laboratory to Clinic. <i>Frontiers in Neuroscience</i> , 2021, 15, 783674.	1.4	0
76	Effects of temporal frequency on binocularity and contrast sensitivity in amblyopia. <i>Journal of Vision</i> , 2017, 17, 1055.	0.1	0
77	On the heterogeneity of visual crowding. <i>Journal of Vision</i> , 2017, 17, 367.	0.1	0
78	Localization errors following saccadic adaptation to a dichoptic step. <i>Journal of Vision</i> , 2018, 18, 1293.	0.1	0
79	Fixation Patterns to Celebrities and Selfies following Image and Task Modification. <i>Journal of Vision</i> , 2018, 18, 1201.	0.1	0
80	Oculomotor behavior during eye-hand coordination tasks. <i>Journal of Vision</i> , 2019, 19, 218a.	0.1	0
81	Measuring the field of contrast sensitivity via saccadic foraging.. <i>Journal of Vision</i> , 2019, 19, 121a.	0.1	0
82	Contributed Session I: FInD Color Detection and Discrimination in adults with and without color vision deficits: Preliminary results. <i>Journal of Vision</i> , 2022, 22, 5.	0.1	0
83	Contributed Session III: InFoRM: Rivalry generates reliable estimates of perceptual dynamics. <i>Journal of Vision</i> , 2022, 22, 29.	0.1	0