

# Peter J Bex

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

1,731  
citations

304368

22  
h-index

360668

35  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial structure, phase, and the contrast of natural images. <i>Journal of Vision</i> , 2022, 22, 4.	0.1	5
2	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
3	Contributed Session III: InFoRM: Rivalry generates reliable estimates of perceptual dynamics. <i>Journal of Vision</i> , 2022, 22, 29.	0.1	0
4	Visual consciousness dynamics in adults with and without autism. <i>Scientific Reports</i> , 2022, 12, 4376.	1.6	9
5	Effect of Anthropomorphic Glyph Design on the Accuracy of Categorization Tasks. , 2022, , .		1
6	Predicting Global Testâ€“Retest Variability of Visual Fields in Glaucoma. <i>Ophthalmology Glaucoma</i> , 2021, 4, 390-399.	0.9	8
7	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
8	The Effect of Ametropia on Glaucomatous Visual Field Loss. <i>Journal of Clinical Medicine</i> , 2021, 10, 2796.	1.0	3
9	Cognitive load influences oculomotor behavior in natural scenes. <i>Scientific Reports</i> , 2021, 11, 12405.	1.6	19
10	Gravitational effects of scene information in object localization. <i>Scientific Reports</i> , 2021, 11, 11520.	1.6	1
11	Microsaccades before response initiation reflect angular errors in a manual peripheral localization task. <i>Journal of Vision</i> , 2021, 21, 2220.	0.1	0
12	Resilience of temporal processing to early and extended visual deprivation. <i>Vision Research</i> , 2021, 186, 80-86.	0.7	7
13	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
14	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
15	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
16	Neural correlates associated with impaired global motion perception in cerebral visual impairment (CVI). <i>NeuroImage: Clinical</i> , 2021, 32, 102821.	1.4	8
17	Visual search performance in cerebral visual impairment is associated with altered alpha band oscillations. <i>Neuropsychologia</i> , 2021, 161, 108011.	0.7	2
18	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

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19	Assessing visual search performance using a novel dynamic naturalistic scene. <i>Journal of Vision</i> , 2021, 21, 5.	0.1	7
20	Editorial: The Contrast Sensitivity Function: From Laboratory to Clinic. <i>Frontiers in Neuroscience</i> , 2021, 15, 783674.	1.4	0
21	What Color Was It? A Psychophysical Paradigm for Tracking Subjective Progress in Continuous Tasks. <i>Perception</i> , 2020, 49, 21-38.	0.5	2
22	Characterization of Central Visual Field Loss in End-stage Glaucoma by Unsupervised Artificial Intelligence. <i>JAMA Ophthalmology</i> , 2020, 138, 190.	1.4	36
23	Artificial Intelligence Classification of Central Visual Field Patterns in Glaucoma. <i>Ophthalmology</i> , 2020, 127, 731-738.	2.5	33
24	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
25	A dichoptic feedback-based oculomotor training method to manipulate interocular alignment. <i>Scientific Reports</i> , 2020, 10, 15634.	1.6	4
26	Effects of Task on Reading Performance Estimates. <i>Frontiers in Psychology</i> , 2020, 11, 2005.	1.1	3
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	Mechanisms underlying simultaneous brightness contrast: Early and innate. <i>Vision Research</i> , 2020, 173, 41-49.	0.7	15
29	The Linguistic Analysis of Scene Semantics: LASS. <i>Behavior Research Methods</i> , 2020, 52, 2349-2371.	2.3	7
30	Near-optimal combination of disparity across a log-polar scaled visual field. <i>PLoS Computational Biology</i> , 2020, 16, e1007699.	1.5	15
31	Binocular Summation and Suppression of Contrast Sensitivity in Strabismus, Fusion and Amblyopia. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 234.	1.0	23
32	Effects of temporal frequency on binocular deficits in amblyopia. <i>Vision Research</i> , 2019, 163, 52-62.	0.7	10
33	An Artificial Intelligence Approach to Detect Visual Field Progression in Glaucoma Based on Spatial Pattern Analysis. , 2019, 60, 365.		78
34	The Assessment of Visual Function and Functional Vision. <i>Seminars in Pediatric Neurology</i> , 2019, 31, 30-40.	1.0	72
35	Attentional selection and illusory surface appearance. <i>Scientific Reports</i> , 2019, 9, 2227.	1.6	9
36	Coding of low-level position and orientation information in human naturalistic vision. <i>PLoS ONE</i> , 2019, 14, e0212141.	1.1	2

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37	Oculomotor behavior during eye-hand coordination tasks. <i>Journal of Vision</i> , 2019, 19, 218a.	0.1	0
38	Measuring the field of contrast sensitivity via saccadic foraging.. <i>Journal of Vision</i> , 2019, 19, 121a.	0.1	0
39	Reversal of Glaucoma Hemifield Test Results and Visual Field Features in Glaucoma. <i>Ophthalmology</i> , 2018, 125, 352-360.	2.5	36
40	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
41	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
42	Bayesian adaptive assessment of the reading function for vision: The qReading method. <i>Journal of Vision</i> , 2018, 18, 6.	0.1	10
43	Reply. <i>Ophthalmology</i> , 2018, 125, e66-e67.	2.5	0
44	Localization errors following saccadic adaptation to a dichoptic step. <i>Journal of Vision</i> , 2018, 18, 1293.	0.1	0
45	Fixation Patterns to Celebrities and Selfies following Image and Task Modification. <i>Journal of Vision</i> , 2018, 18, 1201.	0.1	0
46	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
47	Evaluation of the precision of contrast sensitivity function assessment on a tablet device. <i>Scientific Reports</i> , 2017, 7, 46706.	1.6	27
48	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
49	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
50	Impact of Natural Blind Spot Location on Perimetry. <i>Scientific Reports</i> , 2017, 7, 6143.	1.6	10
51	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
52	Evaluation of the Tobii EyeX Eye tracking controller and Matlab toolkit for research. <i>Behavior Research Methods</i> , 2017, 49, 923-946.	2.3	126
53	Binocular Therapy for Childhood Amblyopia Improves Vision Without Breaking Interocular Suppression. , 2017, 58, 3031.		69
54	Enhancing research with Plenary Labs. <i>Science and Public Policy</i> , 2017, 44, 434-439.	1.2	0

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55	Effects of temporal frequency on binocularity and contrast sensitivity in amblyopia. <i>Journal of Vision</i> , 2017, 17, 1055.	0.1	0
56	On the heterogeneity of visual crowding. <i>Journal of Vision</i> , 2017, 17, 367.	0.1	0
57	Perceived Visual Distortions in Juvenile Amblyopes During/Following Routine Amblyopia Treatment. , 2016, 57, 4045.		4
58	A space-variant model for motion interpretation across the visual field. <i>Journal of Vision</i> , 2016, 16, 12.	0.1	14
59	Assessing Suppression in Amblyopic Children With a Dichoptic Eye Chart. , 2016, 57, 5649.		50
60	Monocular and Binocular Contributions to Oculomotor Plasticity. <i>Scientific Reports</i> , 2016, 6, 31861.	1.6	12
61	Reply to Pachai et al.. <i>Current Biology</i> , 2016, 26, R353-R354.	1.8	11
62	Spatial-frequency dependent binocular imbalance in amblyopia. <i>Scientific Reports</i> , 2015, 5, 17181.	1.6	61
63	Perceptual Visual Distortions in Adult Amblyopia and Their Relationship to Clinical Features. , 2015, 56, 5533.		11
64	Novel Quantitative Assessment of Metamorphopsia in Maculopathy. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 494-504.	3.3	29
65	A Unifying Model of Orientation Crowding in Peripheral Vision. <i>Current Biology</i> , 2015, 25, 3213-3219.	1.8	60
66	A Statistical Analysis of Metamorphopsia in 7106 Amsler Grids. <i>Ophthalmology</i> , 2015, 122, 431-433.	2.5	9
67	On the number of perceivable blur levels in naturalistic images. <i>Vision Research</i> , 2015, 115, 142-150.	0.7	5
68	Reducing the size of the human physiological blind spot through training. <i>Current Biology</i> , 2015, 25, R747-R748.	1.8	7
69	Patterns of functional vision loss in glaucoma determined with archetypal analysis. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141118.	1.5	87
70	The (In)Effectiveness of Simulated Blur for Depth Perception in Naturalistic Images. <i>PLoS ONE</i> , 2015, 10, e0140230.	1.1	20
71	Metamorphopsia and letter recognition. <i>Journal of Vision</i> , 2014, 14, 1-1.	0.1	16
72	Simulated disparity and peripheral blur interact during binocular fusion. <i>Journal of Vision</i> , 2014, 14, 13-13.	0.1	33

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73	Effect of Brimonidine on Retinal Vascular Autoregulation and Short-term Visual Function in Normal Tension Glaucoma. <i>American Journal of Ophthalmology</i> , 2014, 158, 105-112.e1.	1.7	45
74	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
75	Integrating Retinotopic Features in Spatiotopic Coordinates. <i>Journal of Neuroscience</i> , 2014, 34, 7351-7360.	1.7	36
76	Assessing Binocular Interaction in Amblyopia and Its Clinical Feasibility. <i>PLoS ONE</i> , 2014, 9, e100156.	1.1	47
77	Peri-Saccadic Natural Vision. <i>Journal of Neuroscience</i> , 2013, 33, 1211-1217.	1.7	45
78	Stereoacuity in the periphery is limited by internal noise. <i>Journal of Vision</i> , 2012, 12, 12-12.	0.1	26
79	(In) Sensitivity to spatial distortion in natural scenes. <i>Journal of Vision</i> , 2010, 10, 1-15.	0.1	57
80	Contrast sensitivity in natural scenes depends on edge as well as spatial frequency structure. <i>Journal of Vision</i> , 2009, 9, 1-1.	0.1	116
81	Local motion processing limits fine direction discrimination in the periphery. <i>Vision Research</i> , 2008, 48, 1719-1725.	0.7	11
82	The perception of suprathreshold contrast and fast adaptive filtering. <i>Journal of Vision</i> , 2007, 7, 1.	0.1	35
83	Contrast gain control in natural scenes. <i>Journal of Vision</i> , 2007, 7, 12.	0.1	37