Michael H Herzog

List of Publications by Year
in descending order

131 papers	2,212 citations	236925 25 h-index	302126 39 g-index
137 all docs	137 docs citations	137 times ranked	1670 citing authors

#	Article	IF	Citations
1	No Common Factor Underlying Decline of Visual Abilities in Mild Cognitive Impairment. Experimental Aging Research, 2023, 49, 183-200.	1.2	3
2	A guideline for linking brain wave findings to the various aspects of discrete perception. European Journal of Neuroscience, 2022, 55, 3528-3537.	2.6	9
3	Embedded figures in schizophrenia: A main deficit but no specificity. Schizophrenia Research: Cognition, 2022, 28, 100227.	1.3	3
4	First-person experience cannot rescue causal structure theories from the unfolding argument. Consciousness and Cognition, 2022, 98, 103261.	1.5	2
5	The Irreducibility of Vision: Gestalt, Crowding and the Fundamentals of Vision. Vision (Switzerland), 2022, 6, 35.	1.2	2
6	Hard criteria for empirical theories of consciousness. Cognitive Neuroscience, 2021, 12, 41-62.	1.4	64
7	Electrophysiological correlates of visual backward masking in patients with bipolar disorder. Psychiatry Research - Neuroimaging, 2021, 307, 111206.	1.8	5
8	Response to commentaries on â€˜hard criteria for empirical theories of consciousnessâ€™. Cognitive Neuroscience, 2021, 12, 99-101.	1.4	2
9	Individual differences in the perception of visual illusions are stable across eyes, time, and measurement methods. Journal of Vision, 2021, 21, 26.	0.3	11
10	Novelty is not surprise: Human exploratory and adaptive behavior in sequential decision-making. PLoS Computational Biology, 2021, 17, e1009070.	3.2	18
11	Serial dependence does not originate from low-level visual processing. Cognition, 2021, 212, 104709.	2.2	50
12	Shrinking Boumaâ€™s window: How to model crowding in dense displays. PLoS Computational Biology, 2021, 17, e1009187.	3.2	11
13	How do visual skills relate to action video game performance?. Journal of Vision, 2021, 21, 10.	0.3	4
14	A comparative biology approach to DNN modeling of vision: A focus on differences, not similarities. Journal of Vision, 2021, 21, 17.	0.3	10
15	Dissecting (un)crowding. Journal of Vision, 2021, 21, 10.	0.3	8
16	What determines the temporal extent of unconscious feature integration?. Journal of Vision, 2021, 21, 2323.	0.3	0
17	Efficient ensemble summaries are inversely related to visual crowding. Journal of Vision, 2021, 21, 2093.	0.3	0
18	Unraveling brain interactions in vision: the example of crowding. Journal of Vision, 2021, 21, 2017.	0.3	0

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19	How crowding challenges (feedforward) convolutional neural networks. Journal of Vision, 2021, 21, 2039.	0.3	0
20	Adaptive Trade-off between Sensitivity and Spatial Resolution and its Implications for Motion Discrimination and Segregation. Journal of Vision, 2021, 21, 1853.	0.3	0
21	Unraveling brain interactions in vision: The example of crowding. NeuroImage, 2021, 240, 118390.	4.2	3
22	Adaptive mechanisms of visual motion discrimination, integration, and segregation. Vision Research, 2021, 188, 96-114.	1.4	0
23	Features integrate along a motion trajectory when object integrity is preserved. Journal of Vision, 2021, 21, 4.	0.3	3
24	Global and high-level effects in crowding cannot be predicted by either high-dimensional pooling or target cueing. Journal of Vision, 2021, 21, 10.	0.3	10
25	Information Integration and Information Storage in Retinotopic and Non-Retinotopic Sensory Memory. Vision (Switzerland), 2021, 5, 61.	1.2	0
26	Perceptual grouping leads to objecthood effects in the Ebbinghaus illusion. Journal of Vision, 2020, 20, 11.	0.3	2
27	When illusions merge. Journal of Vision, 2020, 20, 12.	0.3	8
28	All in Good Time: Long-Lasting Postdictive Effects Reveal Discrete Perception. Trends in Cognitive Sciences, 2020, 24, 826-837.	7.8	58
29	Capsule networks as recurrent models of grouping and segmentation. PLoS Computational Biology, 2020, 16, e1008017.	3.2	33
30	Bayesian regression explains how human participants handle parameter uncertainty. PLoS Computational Biology, 2020, 16, e1007886.	3.2	3
31	Risk prediction error signaling: A two-component response?. NeuroImage, 2020, 214, 116766.	4.2	7
32	Non-retinotopic adaptive center-surround modulation in motion processing. Vision Research, 2020, 174, 10-21.	1.4	2
33	EEG microstates are a candidate endophenotype for schizophrenia. Nature Communications, 2020, 11, 3089.	12.8	134
34	How stable is perception in #TheDress and #TheShoe?. Vision Research, 2020, 169, 1-5.	1.4	8
35	Neural Compensation Mechanisms of Siblings of Schizophrenia Patients as Revealed by High-Density EEG. Schizophrenia Bulletin, 2020, 46, 1009-1018.	4.3	15
36	Capsule networks as recurrent models of grouping and segmentation. , 2020, 16, e1008017.		0

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37	Capsule networks as recurrent models of grouping and segmentation. , 2020, 16, e1008017.		0
38	Capsule networks as recurrent models of grouping and segmentation. , 2020, 16, e1008017.		0
39	Capsule networks as recurrent models of grouping and segmentation. , 2020, 16, e1008017.		0
40	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
41	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
42	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
43	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
44	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
45	Bayesian regression explains how human participants handle parameter uncertainty. , 2020, 16, e1007886.		0
46	Running Large-Scale Simulations on the Neurorobotics Platform to Understand Vision â€" The Case of Visual Crowding. Frontiers in Neurorobotics, 2019, 13, 33.	2.8	11
47	Associations between genetic variations and global motion perception. Experimental Brain Research, 2019, 237, 2729-2734.	1.5	3
48	Beyond Bouma's window: How to explain global aspects of crowding?. PLoS Computational Biology, 2019, 15, e1006580.	3.2	38
49	Dopaminergic modulation of motor network compensatory mechanisms in Parkinson's disease. Human Brain Mapping, 2019, 40, 4397-4416.	3.6	4
50	Exploring the Extent in the Visual Field of the Honeycomb and Extinction Illusions. I-Perception, 2019, 10, 204166951985478.	1.4	6
51	Motor response specificity in perceptual learning and its release by double training. Journal of Vision, 2019, 19, 4.	0.3	6
52	Feature integration within discrete time windows. Nature Communications, 2019, 10, 4901.	12.8	22
53	Reference-frames in vision: Contributions of attentional tracking to nonretinotopic perception in the Ternus-Pikler display. Journal of Vision, 2019, 19, 7.	0.3	4
54	Building perception block by block: a response to Fekete<i>et al.</i>. Neuroscience of Consciousness, 2019, 2019, niy012.	2.6	11

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55	The unfolding argument: Why IIT and other causal structure theories cannot explain consciousness. Consciousness and Cognition, 2019, 72, 49-59.	1.5	63
56	Schizophrenia patients using atypical medication perform better in visual tasks than patients using typical medication. Psychiatry Research, 2019, 275, 31-38.	3.3	25
57	Electrophysiological correlates of visual backward masking in patients with major depressive disorder. Psychiatry Research - Neuroimaging, 2019, 294, 111004.	1.8	10
58	Factors underlying visual illusions are illusion-specific but not feature-specific. Journal of Vision, 2019, 19, 12.	0.3	26
59	One-shot learning and behavioral eligibility traces in sequential decision making. ELife, 2019, 8, .	6.0	16
60	Competing unconscious reference-frames shape conscious motion perception. Journal of Vision, 2019, 19, 150c.	0.3	0
61	Adaptive center-surround mechanisms in non-retinotopic processes. Journal of Vision, 2019, 19, 295b.	0.3	0
62	Unconscious retinotopic motion processing affects non-retinotopic motion perception. Consciousness and Cognition, 2018, 62, 135-147.	1.5	6
63	Is lack of attention necessary for task-irrelevant perceptual learning?. Vision Research, 2018, 152, 118-125.	1.4	3
64	An automatic pre-processing pipeline for EEG analysis (APP) based on robust statistics. Clinical Neurophysiology, 2018, 129, 1427-1437.	1.5	53
65	Electrophysiological correlates of visual backward masking in patients with first episode psychosis. Psychiatry Research - Neuroimaging, 2018, 282, 64-72.	1.8	12
66	Sustained spatial attention can affect feature fusion. Journal of Vision, 2018, 18, 20.	0.3	1
67	Is the perception of illusions abnormal in schizophrenia?. Psychiatry Research, 2018, 270, 929-939.	3.3	40
68	Sex-related differences in vision are heterogeneous. Scientific Reports, 2018, 8, 7521.	3.3	60
69	Dominant men are faster in decision-making situations and exhibit a distinct neural signal for promptness. Cerebral Cortex, 2018, 28, 3740-3751.	2.9	11
70	Perceptual grouping. Current Biology, 2018, 28, R687-R688.	3.9	4
71	Rethinking Body Ownership in Schizophrenia: Experimental and Meta-analytical Approaches Show no Evidence for Deficits. Schizophrenia Bulletin, 2018, 44, 643-652.	4.3	27
72	Sustained spatial attention can affect feature fusion. Journal of Vision, 2018, 18, 1027.	0.3	0

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73	Cholinergic dysfunction might affect backward masking performance: evidence from schizophrenia. Journal of Vision, 2018, 18, 968.	0.3	0
74	Neural dynamics of grouping and segmentation explain properties of visual crowding.. Psychological Review, 2017, 124, 483-504.	3.8	43
75	About individual differences in vision. Vision Research, 2017, 141, 282-292.	1.4	77
76	Pathological completion in the intact visual field of hemianopia patients. Visual Cognition, 2017, 25, 169-183.	1.6	1
77	Electrophysiological correlates of visual backward masking in high schizotypic personality traits participants. Psychiatry Research, 2017, 254, 251-257.	3.3	14
78	What to Choose Next? A Paradigm for Testing Human Sequential Decision Making. Frontiers in Psychology, 2017, 8, 312.	2.1	11
79	The role of one-shot learning in #TheDress. Journal of Vision, 2017, 17, 15.	0.3	15
80	Perceptual learning is specific beyond vision and decision making. Journal of Vision, 2017, 17, 6.	0.3	7
81	Unpredictability does not hamper nonretinotopic motion perception. Journal of Vision, 2017, 17, 6.	0.3	4
82	What is new in perceptual learning?. Journal of Vision, 2017, 17, 23.	0.3	5
83	Double training reduces motor response specificity. Journal of Vision, 2017, 17, 38.	0.3	1
84	Towards a Unifying Model of Crowding: Model Olympics. Journal of Vision, 2017, 17, 399.	0.3	0
85	Perceptual Grouping and Segmentation: Uncrowding. Journal of Vision, 2017, 17, 366.	0.3	0
86	Crowding asymmetries in a neural model of image segmentation. Journal of Vision, 2017, 17, 365.	0.3	0
87	The Structure of Visual Space. Journal of Vision, 2017, 17, 787.	0.3	0
88	The effect of overall stimulus configuration on crowding. Journal of Vision, 2017, 17, 370.	0.3	0
89	Un-crowding affects cortical activation in V1 differently from LOC. Journal of Vision, 2017, 17, 368.	0.3	0
90	What crowding can tell us about object representations. Journal of Vision, 2016, 16, 35.	0.3	25

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91	What crowds in crowding?. Journal of Vision, 2016, 16, 25.	0.3	7
92	A New Conceptualization of Human Visual Sensory-Memory. Frontiers in Psychology, 2016, 7, 830.	2.1	32
93	An overview of quantitative approaches in Gestalt perception. Vision Research, 2016, 126, 3-8.	1.4	45
94	Does sensitivity in binary choice tasks depend on response modality?. Consciousness and Cognition, 2016, 43, 57-65.	1.5	6
95	A computational model for reference-frame synthesis with applications to motion perception. Vision Research, 2016, 126, 242-253.	1.4	13
96	How best to unify crowding?. Current Biology, 2016, 26, R352-R353.	3.9	13
97	Editorial. Vision Research, 2016, 126, 1-2.	1.4	1
98	Local versus global and retinotopic versus non-retinotopic motion processing in schizophrenia patients. Psychiatry Research, 2016, 246, 461-465.	3.3	6
99	Spatial and temporal aspects of visual backward masking in children and young adolescents. Attention, Perception, and Psychophysics, 2016, 78, 1137-1144.	1.3	1
100	EEG Correlates of Relative Motion Encoding. Brain Topography, 2016, 29, 273-282.	1.8	3
101	Putting low-level vision into global context: Why vision cannot be reduced to basic circuits. Vision Research, 2016, 126, 9-18.	1.4	17
102	Time Slices: What Is the Duration of a Percept?. PLoS Biology, 2016, 14, e1002433.	5.6	104
103	Does chronic nicotine consumption influence visual backward masking in schizophrenia and schizotypy?. Schizophrenia Research: Cognition, 2015, 2, 93-99.	1.3	7
104	Small effects of smoking on visual spatiotemporal processing. Scientific Reports, 2015, 4, 7316.	3.3	17
105	Schizophrenia patients and 22q11.2 deletion syndrome adolescents at risk express the same deviant patterns of resting state EEG microstates: A candidate endophenotype of schizophrenia. Schizophrenia Research: Cognition, 2015, 2, 159-165.	1.3	64
106	The effective reference frame in perceptual judgments of motion direction. Vision Research, 2015, 107, 101-112.	1.4	8
107	Visual masking & schizophrenia. Schizophrenia Research: Cognition, 2015, 2, 64-71.	1.3	14
108	Spatial properties of non-retinotopic reference frames in human vision. Vision Research, 2015, 113, 44-54.	1.4	7

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109	Targets but not flankers are suppressed in crowding as revealed by EEG frequency tagging. NeuroImage, 2015, 119, 325-331.	4.2	16
110	Crowding, grouping, and gain control in schizophrenia. Psychiatry Research, 2015, 226, 441-445.	3.3	12
111	How color, regularity, and good Gestalt determine backward masking. Journal of Vision, 2014, 14, 8-8.	0.3	12
112	Is there a common factor for vision?. Journal of Vision, 2014, 14, 4-4.	0.3	36
113	Deleterious effects of roving on learned tasks. Vision Research, 2014, 99, 88-92.	1.4	6
114	Neural correlates of visual crowding. NeuroImage, 2014, 93, 23-31.	4.2	67
115	Tracing path-guided apparent motion in human primary visual cortex V1. Scientific Reports, 2014, 4, 6063.	3.3	10
116	Long-lasting visual integration of form, motion, and color as revealed by visual masking. Journal of Vision, 2013, 13, 12-12.	0.3	14
117	The Fate of Visible Features of Invisible Elements. Frontiers in Psychology, 2012, 3, 119.	2.1	8
118	Perceptual learning, roving and the unsupervised bias. Vision Research, 2012, 61, 95-99.	1.4	28
119	When transcranial magnetic stimulation (TMS) modulates feature integration. European Journal of Neuroscience, 2010, 32, 1951-1958.	2.6	7
120	Long-lasting modulation of feature integrationby transcranial magnetic stimulation. Journal of Vision, 2009, 9, 1-1.	0.3	81
121	Perceptual learning and roving: Stimulus types and overlapping neural populations. Vision Research, 2009, 49, 1420-1427.	1.4	32
122	Human Perceptual Learning by Mental Imagery. Current Biology, 2009, 19, 2081-2085.	3.9	76
123	Pitting temporal against spatial integration in schizophrenic patients. Psychiatry Research, 2009, 168, 1-10.	3.3	5
124	Consciousness & the small network argument. Neural Networks, 2007, 20, 1054-1056.	5.9	15
125	Long lasting effects of unmasking in a feature fusion paradigm. Psychological Research, 2007, 71, 653-658.	1.7	6
126	Spatial processing and visual backward masking. Advances in Cognitive Psychology, 2007, 3, 85-92.	0.5	25

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127	Perceptual learning with spatial uncertainties. Vision Research, 2006, 46, 3223-3233.	1.4	35
128	Reverse feedback induces position and orientation specific changes. Vision Research, 2006, 46, 3761-3770.	1.4	27
129	The flight path of the phoenixâ€"The visible trace of invisible elements in human vision. Journal of Vision, 2006, 6, 7.	0.3	70
130	Valences in contextual vision. Vision Research, 2004, 44, 3131-3143.	1.4	9
131	Effects of grouping in contextual modulation. Nature, 2002, 415, 433-436.	27.8	88