Benjamin Harvey

List of Publications by Year
in descending order

41 papers	1,994 citations	430442 18 h-index	301761 39 g-index
47 all docs	47 docs citations	47 times ranked	1456 citing authors

#	Article	IF	Citations
1	Topographic Representation of Numerosity in the Human Parietal Cortex. Science, 2013, 341, 1123-1126.	6.0	425
2	The Relationship between Cortical Magnification Factor and Population Receptive Field Size in Human Visual Cortex: Constancies in Cortical Architecture. Journal of Neuroscience, 2011, 31, 13604-13612.	1.7	269
3	Attraction of Position Preference by Spatial Attention throughout Human Visual Cortex. Neuron, 2014, 84, 227-237.	3.8	170
4	Topographic representations of object size and relationships with numerosity reveal generalized quantity processing in human parietal cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13525-13530.	3.3	159
5	Modeling center-surround configurations in population receptive fields using fMRI. Journal of Vision, 2012, 12, 10-10.	0.1	105
6	A network of topographic numerosity maps in human association cortex. Nature Human Behaviour, 2017, 1, .	6.2	83
7	Frequency specific spatial interactions in human electrocorticography: V1 alpha oscillations reflect surround suppression. NeuroImage, 2013, 65, 424-432.	2.1	75
8	Connective field modeling. NeuroImage, 2013, 66, 376-384.	2.1	75
9	Radial asymmetries in population receptive field size and cortical magnification factor in early visual cortex. NeuroImage, 2018, 167, 41-52.	2.1	70
10	Action Preparation Shapes Processing in Early Visual Cortex. Journal of Neuroscience, 2015, 35, 6472-6480.	1.7	59
11	A Network of Topographic Maps in Human Association Cortex Hierarchically Transforms Visual Timing-Selective Responses. Current Biology, 2020, 30, 1424-1434.e6.	1.8	53
12	Measurement of population receptive fields in human early visual cortex using back-projection tomography. Journal of Vision, 2014, 14, 17-17.	0.1	46
13	Can responses to basic non-numerical visual features explain neural numerosity responses?. NeuroImage, 2017, 149, 200-209.	2.1	38
14	Comparing Parietal Quantity-Processing Mechanisms between Humans and Macaques. Trends in Cognitive Sciences, 2017, 21, 779-793.	4.0	32
15	Visual motion transforms visual space representations similarly throughout the human visual hierarchy. NeuroImage, 2016, 127, 173-185.	2.1	29
16	In vivo evidence of functional and anatomical stripe-based subdivisions in human V2 and V3. Scientific Reports, 2017, 7, 733.	1.6	28
17	Transformation from a Retinal to a Cyclopean Representation in Human Visual Cortex. Current Biology, 2015, 25, 1982-1987.	1.8	26
18	Topographic numerosity maps cover subitizing and estimation ranges. Nature Communications, 2021, 12, 3374.	5.8	24

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19	Numerosity tuning in human association cortices and local image contrast representations in early visual cortex. Nature Communications, 2022, 13, 1340.	5.8	24
20	Topographic maps representing haptic numerosity reveals distinct sensory representations in supramodal networks. Nature Communications, 2021, 12, 221.	5.8	21
21	Adaptation to visual numerosity changes neural numerosity selectivity. NeuroImage, 2021, 229, 117794.	2.1	16
22	Correspondence between fMRI and electrophysiology during visual motion processing in human MT+. NeuroImage, 2017, 155, 480-489.	2.1	15
23	Contour extracting networks in early extrastriate cortex. Journal of Vision, 2014, 14, 18-18.	0.1	14
24	The role of neural tuning in quantity perception. Trends in Cognitive Sciences, 2022, 26, 11-24.	4.0	14
25	Similar effects of repetitive transcranial magnetic stimulation of MT+ and a dorsomedial extrastriate site including V3A on pattern detection and position discrimination of rotating and radial motion patterns. Journal of Vision, 2010, 10, 21-21.	0.1	11
26	Quantity Cognition: Numbers, Numerosity, Zero and Mathematics. Current Biology, 2016, 26, R419-R421.	1.8	11
27	Temporal Characteristics of Priming of Attention Shifts Are Mirrored by BOLD Response Patterns in the Frontoparietal Attention Network. Cerebral Cortex, 2020, 30, 2267-2280.	1.6	11
28	Image identification from brain activity using the population receptive field model. PLoS ONE, 2017, 12, e0183295.	1.1	10
29	Visual timing-tuned responses in human association cortices and response dynamics in early visual cortex. Nature Communications, 2022, 13, .	5.8	10
30	Separate spatial and temporal frequency tuning to visual motion in human MT+ measured with ECoG. Human Brain Mapping, 2017, 38, 293-307.	1.9	9
31	Size constancy affects the perception and parietal neural representation of object size. NeuroImage, 2021, 232, 117909.	2.1	9
32	Simultaneous changes in visual acuity, cortical population receptive field size, visual field map size, and retinal thickness in healthy human aging. Brain Structure and Function, 2021, 226, 2839-2853.	1.2	9
33	Data describing the accuracy of non-numerical visual features in predicting fMRI responses to numerosity. Data in Brief, 2018, 16, 193-205.	0.5	7
34	Attention drives human numerosity-selective responses. Cell Reports, 2022, 39, 111005.	2.9	7
35	Phase-synchronization-based parcellation of resting state fMRI signals reveals topographically organized clusters in early visual cortex. NeuroImage, 2018, 170, 424-433.	2.1	6
36	Optical Properties Influence Visual Cortical Functional Resolution After Cataract Surgery and Both Dissociate From Subjectively Perceived Quality of Vision. , 2018, 59, 986.		6

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37	Propagation of BOLD Activity Reveals Task-dependent Directed Interactions Across Human Visual Cortex. Cerebral Cortex, 2020, 30, 5899-5914.	1.6	6
38	Neural numerosity selectivity changes after visual numerosity adaptation. Journal of Vision, 2020, 20, 486.	0.1	3
39	Similar adaptation effects on motion pattern detection and position discrimination tasks: Unusual properties of global and local level motion adaptation. Vision Research, 2011, 51, 479-488.	0.7	2
40	Auditory timing-tuned neural responses in the human auditory cortices. NeuroImage, 2022, 258, 119366.	2.1	1
41	Attention modulates numerosity responses in human parietal cortex. Journal of Vision, 2020, 20, 690.	0.1	0