

Chris I Baker

List of Publications by Citations

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117
papers

9,849
citations

43
h-index

99
g-index

167
ext. papers

12,030
ext. citations

8
avg, IF

6.64
L-index

#	Paper	IF	Citations
117	Circular analysis in systems neuroscience: the dangers of double dipping. <i>Nature Neuroscience</i> , 2009 , 12, 535-40	25.5	1908
116	A new neural framework for visuospatial processing. <i>Nature Reviews Neuroscience</i> , 2011 , 12, 217-30	13.5	845
115	The ventral visual pathway: an expanded neural framework for the processing of object quality. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 26-49	14	650
114	Scanning the horizon: towards transparent and reproducible neuroimaging research. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 115-126	13.5	646
113	Separate face and body selectivity on the fusiform gyrus. <i>Journal of Neuroscience</i> , 2005 , 25, 11055-9	6.6	383
112	Visual word processing and experiential origins of functional selectivity in human extrastriate cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 9087-92	11.5	277
111	Integration of visual and auditory information by superior temporal sulcus neurons responsive to the sight of actions. <i>Journal of Cognitive Neuroscience</i> , 2005 , 17, 377-91	3.1	261
110	Impact of learning on representation of parts and wholes in monkey inferotemporal cortex. <i>Nature Neuroscience</i> , 2002 , 5, 1210-6	25.5	251
109	Neural representation for the perception of the intentionality of actions. <i>Brain and Cognition</i> , 2000 , 44, 280-302	2.7	243
108	Real-world scene representations in high-level visual cortex: it's the spaces more than the places. <i>Journal of Neuroscience</i> , 2011 , 31, 7322-33	6.6	214
107	Reorganization of visual processing in macular degeneration. <i>Journal of Neuroscience</i> , 2005 , 25, 614-8	6.6	202
106	Gaze following and joint attention in rhesus monkeys (<i>Macaca mulatta</i>). <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 1997 , 111, 286-93	2.1	192
105	Discrimination training alters object representations in human extrastriate cortex. <i>Journal of Neuroscience</i> , 2006 , 26, 13025-36	6.6	192
104	Teaching an adult brain new tricks: a critical review of evidence for training-dependent structural plasticity in humans. <i>NeuroImage</i> , 2013 , 73, 225-36	7.9	164
103	High-level visual object representations are constrained by position. <i>Cerebral Cortex</i> , 2010 , 20, 2916-25	5.1	138
102	Disentangling visual imagery and perception of real-world objects. <i>NeuroImage</i> , 2012 , 59, 4064-73	7.9	136
101	Feedback of visual object information to foveal retinotopic cortex. <i>Nature Neuroscience</i> , 2008 , 11, 1439-45	15.5	127

100	Goal-dependent dissociation of visual and prefrontal cortices during working memory. <i>Nature Neuroscience</i> , 2013 , 16, 997-9	25.5	126
99	Role of attention and perceptual grouping in visual statistical learning. <i>Psychological Science</i> , 2004 , 15, 460-6	7.9	123
98	Deconstructing multivariate decoding for the study of brain function. <i>NeuroImage</i> , 2018 , 180, 4-18	7.9	122
97	Reorganization of visual processing in macular degeneration: replication and clues about the role of foveal loss. <i>Vision Research</i> , 2008 , 48, 1910-9	2.1	104
96	Task context impacts visual object processing differentially across the cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E962-71	11.5	101
95	Deconstructing visual scenes in cortex: gradients of object and spatial layout information. <i>Cerebral Cortex</i> , 2013 , 23, 947-57	5.1	96
94	Slower rate of binocular rivalry in autism. <i>Journal of Neuroscience</i> , 2013 , 33, 16983-91	6.6	89
93	How position dependent is visual object recognition?. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 114-22	14	89
92	Reorganization of visual processing in macular degeneration is not specific to the "preferred retinal locus". <i>Journal of Neuroscience</i> , 2009 , 29, 2768-73	6.6	88
91	Contributions of low- and high-level properties to neural processing of visual scenes in the human brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	83
90	A Retinotopic Basis for the Division of High-Level Scene Processing between Lateral and Ventral Human Occipitotemporal Cortex. <i>Journal of Neuroscience</i> , 2015 , 35, 11921-35	6.6	83
89	Cortical representations of bodies and faces are strongest in commonly experienced configurations. <i>Nature Neuroscience</i> , 2010 , 13, 417-8	25.5	79
88	Global motion perception deficits in autism are reflected as early as primary visual cortex. <i>Brain</i> , 2014 , 137, 2588-99	11.2	77
87	The neural basis of visual object learning. <i>Trends in Cognitive Sciences</i> , 2010 , 14, 22-30	14	75
86	The representational dynamics of task and object processing in humans. <i>ELife</i> , 2018 , 7,	8.9	72
85	Scene Perception in the Human Brain. <i>Annual Review of Vision Science</i> , 2019 , 5, 373-397	8.2	71
84	Making Sense of Real-World Scenes. <i>Trends in Cognitive Sciences</i> , 2016 , 20, 843-856	14	71
83	Faces in the eye of the beholder: unique and stable eye scanning patterns of individual observers. <i>Journal of Vision</i> , 2014 , 14, 6	0.4	65

82	Tunnel vision: sharper gradient of spatial attention in autism. <i>Journal of Neuroscience</i> , 2013 , 33, 6776-816.6		62
81	Distinct contributions of functional and deep neural network features to representational similarity of scenes in human brain and behavior. <i>ELife</i> , 2018 , 7,	8.9	60
80	Impact of time-of-day on brain morphometric measures derived from T1-weighted magnetic resonance imaging. <i>NeuroImage</i> , 2016 , 133, 41-52	7.9	58
79	Does the fusiform face area contain subregions highly selective for nonfaces?. <i>Nature Neuroscience</i> , 2007 , 10, 3-4	25.5	55
78	Start position strongly influences fixation patterns during face processing: difficulties with eye movements as a measure of information use. <i>PLoS ONE</i> , 2012 , 7, e31106	3.7	53
77	Neuronal representation of disappearing and hidden objects in temporal cortex of the macaque. <i>Experimental Brain Research</i> , 2001 , 140, 375-81	2.3	53
76	Atypical integration of motion signals in Autism Spectrum Conditions. <i>PLoS ONE</i> , 2012 , 7, e48173	3.7	46
75	Scene-Selectivity and Retinotopy in Medial Parietal Cortex. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 412	3.3	44
74	Revealing the multidimensional mental representations of natural objects underlying human similarity judgements. <i>Nature Human Behaviour</i> , 2020 , 4, 1173-1185	12.8	42
73	Plasticity of the human visual system after retinal gene therapy in patients with Leber's congenital amaurosis. <i>Science Translational Medicine</i> , 2015 , 7, 296ra110	17.5	39
72	Bayesian population receptive field modelling. <i>NeuroImage</i> , 2018 , 180, 173-187	7.9	37
71	Multi-Voxel Decoding and the Topography of Maintained Information During Visual Working Memory. <i>Frontiers in Systems Neuroscience</i> , 2016 , 10, 2	3.5	37
70	Beyond perceptual expertise: revisiting the neural substrates of expert object recognition. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 885	3.3	36
69	THINGS: A database of 1,854 object concepts and more than 26,000 naturalistic object images. <i>PLoS ONE</i> , 2019 , 14, e0223792	3.7	35
68	Drawings of real-world scenes during free recall reveal detailed object and spatial information in memory. <i>Nature Communications</i> , 2019 , 10, 5	17.4	35
67	Distinct subdivisions of human medial parietal cortex support recollection of people and places. <i>ELife</i> , 2019 , 8,	8.9	33
66	Evaluating the correspondence between face-, scene-, and object-selectivity and retinotopic organization within lateral occipitotemporal cortex. <i>Journal of Vision</i> , 2016 , 16, 14	0.4	30
65	Seeing is not feeling: posterior parietal but not somatosensory cortex engagement during touch observation. <i>Journal of Neuroscience</i> , 2015 , 35, 1468-80	6.6	29

64	Impact of time-of-day on diffusivity measures of brain tissue derived from diffusion tensor imaging. <i>NeuroImage</i> , 2018 , 173, 25-34	7.9	29
63	A Posterior-Anterior Distinction between Scene Perception and Scene Construction in Human Medial Parietal Cortex. <i>Journal of Neuroscience</i> , 2019 , 39, 705-717	6.6	29
62	The Temporal Dynamics of Scene Processing: A Multifaceted EEG Investigation. <i>ENeuro</i> , 2016 , 3,	3.9	26
61	Diffusion MRI properties of the human uncinate fasciculus correlate with the ability to learn visual associations. <i>Cortex</i> , 2015 , 72, 65-78	3.8	25
60	The impact of reward and punishment on skill learning depends on task demands. <i>Scientific Reports</i> , 2016 , 6, 36056	4.9	25
59	Toward a new model of scientific publishing: discussion and a proposal. <i>Frontiers in Computational Neuroscience</i> , 2011 , 5, 55	3.5	25
58	The categories, frequencies, and stability of idiosyncratic eye-movement patterns to faces. <i>Vision Research</i> , 2017 , 141, 191-203	2.1	24
57	Differential Sampling of Visual Space in Ventral and Dorsal Early Visual Cortex. <i>Journal of Neuroscience</i> , 2018 , 38, 2294-2303	6.6	24
56	"Referred visual sensations": rapid perceptual elongation after visual cortical deprivation. <i>Journal of Neuroscience</i> , 2009 , 29, 8960-4	6.6	21
55	Privileged coding of convex shapes in human object-selective cortex. <i>Journal of Neurophysiology</i> , 2008 , 100, 753-62	3.2	20
54	Rapid and dynamic processing of face pareidolia in the human brain. <i>Nature Communications</i> , 2020 , 11, 4518	17.4	20
53	Quantifying aphantasia through drawing: Those without visual imagery show deficits in object but not spatial memory. <i>Cortex</i> , 2021 , 135, 159-172	3.8	20
52	Impaired fixation to eyes during facial emotion labelling in children with bipolar disorder or severe mood dysregulation. <i>Journal of Psychiatry and Neuroscience</i> , 2013 , 38, 407-16	4.5	19
51	Similarity judgments and cortical visual responses reflect different properties of object and scene categories in naturalistic images. <i>NeuroImage</i> , 2019 , 197, 368-382	7.9	18
50	Differences in Looking at Own- and Other-Race Faces Are Subtle and Analysis-Dependent: An Account of Discrepant Reports. <i>PLoS ONE</i> , 2016 , 11, e0148253	3.7	18
49	Trajectory of phantom limb pain relief using mirror therapy: Retrospective analysis of two studies. <i>Scandinavian Journal of Pain</i> , 2017 , 15, 98-103	1.9	17
48	Influence of lexical status and orthographic similarity on the multi-voxel response of the visual word form area. <i>NeuroImage</i> , 2015 , 111, 321-328	7.9	17
47	Differential Representations of Perceived and Retrieved Visual Information in Hippocampus and Cortex. <i>Cerebral Cortex</i> , 2019 , 29, 4452-4461	5.1	17

46	On evidence, biases and confounding factors: Response to commentaries. <i>NeuroImage</i> , 2013 , 73, 265-7	7.9	16
45	Memorability of words in arbitrary verbal associations modulates memory retrieval in the anterior temporal lobe. <i>Nature Human Behaviour</i> , 2020 , 4, 937-948	12.8	14
44	The Human Posterior Superior Temporal Sulcus Samples Visual Space Differently From Other Face-Selective Regions. <i>Cerebral Cortex</i> , 2020 , 30, 778-785	5.1	14
43	Boundaries Extend and Contract in Scene Memory Depending on Image Properties. <i>Current Biology</i> , 2020 , 30, 537-543.e3	6.3	13
42	Statistical power comparisons at 3T and 7T with a GO / NOGO task. <i>NeuroImage</i> , 2018 , 175, 100-110	7.9	13
41	Memorability of photographs in subjective cognitive decline and mild cognitive impairment: Implications for cognitive assessment. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 610-618	5.2	10
40	Comparing Clinical Perimetry and Population Receptive Field Measures in Patients with Choroideremia 2018 , 59, 3249-3258		10
39	Distinct Representational Structure and Localization for Visual Encoding and Recall during Visual Imagery. <i>Cerebral Cortex</i> , 2021 , 31, 1898-1913	5.1	10
38	Remodeling human cortex through training: comment on May. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 96-7; author reply 97-8	14	9
37	Finding the baby in the bath water - evidence for task-specific changes in resting state functional connectivity evoked by training. <i>NeuroImage</i> , 2019 , 188, 524-538	7.9	7
36	Differential impact of reward and punishment on functional connectivity after skill learning. <i>NeuroImage</i> , 2019 , 189, 95-105	7.9	7
35	Visual responsiveness in sensorimotor cortex is increased following amputation and reduced after mirror therapy. <i>NeuroImage: Clinical</i> , 2019 , 23, 101882	5.3	6
34	Characteristic visuomotor influences on eye-movement patterns to faces and other high level stimuli. <i>Frontiers in Psychology</i> , 2015 , 6, 1027	3.4	6
33	Informativeness and learning: Response to Gauthier and colleagues. <i>Trends in Cognitive Sciences</i> , 2010 , 14, 236-237	14	6
32	Differential contributions of occipitotemporal regions to person perception. <i>Cognitive Neuroscience</i> , 2011 , 2, 210-211	1.7	6
31	Recent advances in understanding object recognition in the human brain: deep neural networks, temporal dynamics, and context. <i>F1000Research</i> , 2020 , 9,	3.6	6
30	Theta-burst TMS of lateral occipital cortex reduces BOLD responses across category-selective areas in ventral temporal cortex. <i>NeuroImage</i> , 2021 , 230, 117790	7.9	5
29	Representation of Contralateral Visual Space in the Human Hippocampus. <i>Journal of Neuroscience</i> , 2021 , 41, 2382-2392	6.6	5

28	Representation of contralateral visual space in the human hippocampus		4
27	Expert Tool Users Show Increased Differentiation between Visual Representations of Hands and Tools. <i>Journal of Neuroscience</i> , 2021 , 41, 2980-2989	6.6	4
26	Holding a stick at both ends: on faces and expertise. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 442	3.3	3
25	Deconstructing multivariate decoding for the study of brain function		3
24	Distinct subdivisions of human medial parietal cortex are recruited differentially for memory recall of places and people		3
23	Disrupted object-scene semantics boost scene recall but diminish object recall in drawings from memory. <i>Memory and Cognition</i> , 2021 , 49, 1568-1582	2.2	3
22	Multiple adjoining word- and face-selective regions in ventral temporal cortex exhibit distinct dynamics. <i>Journal of Neuroscience</i> , 2021 ,	6.6	3
21	Scenes in the Human Brain: Comparing 2D versus 3D Representations. <i>Neuron</i> , 2019 , 101, 8-10	13.9	3
20	Reply to Intraub. <i>Current Biology</i> , 2020 , 30, R1465-R1466	6.3	2
19	Intention to learn modulates the impact of reward and punishment on sequence learning. <i>Scientific Reports</i> , 2020 , 10, 8906	4.9	2
18	Transcranial Magnetic Stimulation to the Occipital Place Area Biases Gaze During Scene Viewing. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 189	3.3	2
17	Illusory faces are more likely to be perceived as male than female.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2
16	Revealing the multidimensional mental representations of natural objects underlying human similarity judgments		2
15	Author response: The representational dynamics of task and object processing in humans 2018 ,		2
14	An empirically-driven guide on using Bayes Factors for M/EEG decoding		2
13	Acquisition of Long-Term Visual Representations: Psychological and Neural Mechanisms 2005 , 11-35		2
12	Long-term plasticity in adult somatosensory cortex: functional reorganization after surgical removal of an arteriovenous malformation. <i>Neurocase</i> , 2015 , 21, 618-27	0.8	1
11	Visual Processing in the Primate Brain 2012 ,		1

10	THINGS: A database of 1,854 object concepts and more than 26,000 naturalistic object images		1
9	Whole-brain MEG decoding of symbolic and non-symbolic number stimuli reveals primarily format-dependent representations		1
8	The temporal evolution of conceptual object representations revealed through models of behavior, semantics and deep neural networks		1
7	Quantifying Aphantasia through drawing: Those without visual imagery show deficits in object but not spatial memory		1
6	Facing up to stereotypes. <i>Nature Neuroscience</i> , 2016 , 19, 763-4	25.5	1
5	Resolving visual motion through perceptual gaps. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 978-991	14	1
4	An Empirically Driven Guide on Using Bayes Factors for M/EEG Decoding 2022 , 2022,		1
3	Highly similar and competing visual scenes lead to diminished object but not spatial detail in memory drawings.. <i>Memory</i> , 2021 , 1-14	1.8	1
2	Direct comparison of contralateral bias and face/scene selectivity in human occipitotemporal cortex. <i>Brain Structure and Function</i> , 2021 , 1	4	0
1	Imaging Perception 2014 , 157-190		