Kendrick Kay

List of Publications by Year
in descending order

79 papers	5,749 citations	185998 28 h-index	174990 52 g-index
109 all docs	109 docs citations	109 times ranked	4724 citing authors

#	Article	IF	Citations
1	Identifying natural images from human brain activity. Nature, 2008, 452, 352-355.	13.7	1,071
2	Encoding and decoding in fMRI. NeuroImage, 2011, 56, 400-410.	2.1	693
3	Bayesian Reconstruction of Natural Images from Human Brain Activity. Neuron, 2009, 63, 902-915.	3.8	430
4	Compressive spatial summation in human visual cortex. Journal of Neurophysiology, 2013, 110, 481-494.	0.9	270
5	Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging. Nature Medicine, 2013, 19, 1667-1672.	15.2	261
6	Evaluation and statistical inference for human connectomes. Nature Methods, 2014, 11, 1058-1063.	9.0	225
7	The Functional Neuroanatomy of Human Face Perception. Annual Review of Vision Science, 2017, 3, 167-196.	2.3	186
8	Attention Reduces Spatial Uncertainty in Human Ventral Temporal Cortex. Current Biology, 2015, 25, 595-600.	1.8	185
9	GLMdenoise: a fast, automated technique for denoising task-based fMRI data. Frontiers in Neuroscience, 2013, 7, 247.	1.4	183
10	Topographic Organization in and near Human Visual Area V4. Journal of Neuroscience, 2007, 27, 11896-11911.	1.7	143
11	Asynchronous Broadband Signals Are the Principal Source of the BOLD Response in Human Visual Cortex. Current Biology, 2013, 23, 1145-1153.	1.8	140
12	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. Journal of Vision, 2018, 18, 23.	0.1	139
13	A massive 7T fMRI dataset to bridge cognitive neuroscience and artificial intelligence. Nature Neuroscience, 2022, 25, 116-126.	7.1	129
14	Bottom-up and top-down computations in word- and face-selective cortex. ELife, 2017, 6, .	2.8	118
15	Reward Motivation Enhances Task Coding in Frontoparietal Cortex. Cerebral Cortex, 2016, 26, 1647-1659.	1.6	110
16	Resolving Ambiguities of MVPA Using Explicit Models of Representation. Trends in Cognitive Sciences, 2015, 19, 551-554.	4.0	101
17	A Two-Stage Cascade Model of BOLD Responses in Human Visual Cortex. PLoS Computational Biology, 2013, 9, e1003079.	1.5	89
18	A critical assessment of data quality and venous effects in sub-millimeter fMRI. NeuroImage, 2019, 189, 847-869.	2.1	87

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19	Extensive sampling for complete models of individual brains. Current Opinion in Behavioral Sciences, 2021, 40, 45-51.	2.0	86
20	Modeling low-frequency fluctuation and hemodynamic response timecourse in event-related fMRI. Human Brain Mapping, 2008, 29, 142-156.	1.9	73
21	Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation. NeuroImage, 2018, 170, 373-384.	2.1	71
22	Compressive Temporal Summation in Human Visual Cortex. Journal of Neuroscience, 2018, 38, 691-709.	1.7	70
23	Evaluating the Accuracy of Diffusion MRI Models in White Matter. PLoS ONE, 2015, 10, e0123272.	1.1	67
24	Principles for models of neural information processing. NeuroImage, 2018, 180, 101-109.	2.1	67
25	Fixed versus mixed RSA:ÂExplaining visual representations by fixed and mixed feature sets from shallow and deep computational models. Journal of Mathematical Psychology, 2017, 76, 184-197.	1.0	66
26	Visual representations are dominated by intrinsic fluctuations correlated between areas. NeuroImage, 2015, 114, 275-286.	2.1	57
27	I can see what you see. Nature Neuroscience, 2009, 12, 245-245.	7.1	49
28	A New Modular Brain Organization of the BOLD Signal during Natural Vision. Cerebral Cortex, 2018, 28, 3065-3081.	1.6	49
29	An image-computable model for the stimulus selectivity of gamma oscillations. ELife, 2019, 8, .	2.8	37
30	A temporal decomposition method for identifying venous effects in task-based fMRI. Nature Methods, 2020, 17, 1033-1039.	9.0	33
31	GLMdenoise improves multivariate pattern analysis of fMRI data. NeuroImage, 2018, 183, 606-616.	2.1	31
32	Ultra-high-resolution fMRI of Human Ventral Temporal Cortex Reveals Differential Representation of Categories and Domains. Journal of Neuroscience, 2020, 40, 3008-3024.	1.7	28
33	Emerging ethical issues raised by highly portable MRI research in remote and resource-limited international settings. NeuroImage, 2021, 238, 118210.	2.1	28
34	Fractional ridge regression: a fast, interpretable reparameterization of ridge regression. GigaScience, 2020, 9, .	3.3	24
35	Cognitive Computational Neuroscience: A New Conference for an Emerging Discipline. Trends in Cognitive Sciences, 2018, 22, 365-367.	4.0	22
36	Holistic face recognition is an emergent phenomenon of spatial processing in face-selective regions. Nature Communications, 2021, 12, 4745.	5.8	22

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37	Predicting neuronal dynamics with a delayed gain control model. PLoS Computational Biology, 2019, 15, e1007484.	1.5	21
38	Using precise word timing information improves decoding accuracy in a multiband-accelerated multimodal reading experiment. Cognitive Neuropsychology, 2016, 33, 265-275.	0.4	18
39	Haptic fMRI: Combining functional neuroimaging with haptics for studying the brain's motor control representation. , 2013, 2013, 4137-42.		17
40	Adaptive smoothing based on Gaussian processes regression increases the sensitivity and specificity of fMRI data. Human Brain Mapping, 2017, 38, 1438-1459.	1.9	17
41	Understanding multivariate brain activity: Evaluating the effect of voxelwise noise correlations on population codes in functional magnetic resonance imaging. PLoS Computational Biology, 2020, 16, e1008153.	1.5	13
42	A non-invasive, quantitative study of broadband spectral responses in human visual cortex. PLoS ONE, 2018, 13, e0193107.	1.1	13
43	The risk of bias in denoising methods: Examples from neuroimaging. PLoS ONE, 2022, 17, e0270895.	1.1	13
44	Foreground-Background Segmentation Revealed during Natural Image Viewing. ENeuro, 2018, 5, ENEURO.0075-18.2018.	0.9	12
45	Computational Modeling of Responses in Human Visual Cortex. , 2015, , 651-659.		11
46	NeuroGen: Activation optimized image synthesis for discovery neuroscience. NeuroImage, 2022, 247, 118812.	2.1	10
47	Haptic fMRI: Accurately estimating neural responses in motor, pre-motor, and somatosensory cortex during complex motor tasks. , 2014, 2014, 2040-5.		7
48	The Functional Neuroanatomy of Face Processing: Insights from Neuroimaging and Implications for Deep Learning. Advances in Computer Vision and Pattern Recognition, 2017, , 3-31.	0.9	5
49	Flexible top-down modulation in human ventral temporal cortex. NeuroImage, 2020, 218, 116964.	2.1	5
50	The HCP 7T Retinotopy Dataset: A new resource for investigating the organization of human visual cortex. Journal of Vision, 2018, 18, 215.	0.1	5
51	Evidence for a ventral visual stream in the pulvinar. Journal of Vision, 2021, 21, 2809.	0.1	3
52	Binocular Rivalry: A Window into Cortical Competition and Suppression. Journal of the Indian Institute of Science, 2017, 97, 477-485.	0.9	2
53	Trial-by-trial voxelwise noise correlations improve population coding of orientation in human V1. , 2019, , .		2
54	A tool for automatic identification of cerebral sinuses and corresponding artifacts in fMRI. Journal of Vision, 2017, 17, 295.	0.1	2

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55	Precise identification of semantic representations in the human brain. Journal of Vision, 2020, 20, 539.	0.1	2
56	Bottom-up and top-down computations in word- and face-selective cortex. Journal of Vision, 2017, 17, 13.	0.1	1
57	Using population receptive field models to elucidate spatial integration in high-level visual cortex. , 2019, , .		1
58	Bayesian Reconstruction of Perceptual Experiences from Human Brain Activity. Lecture Notes in Computer Science, 2009, , 390-393.	1.0	0
59	Sparse atomic feature learning via gradient regularization: With applications to finding sparse representations of fMRI activity patterns. , 2014, , .		0
60	Color-selective brain responses and hue representations from ultra-high-field fMRI of natural scenes. Journal of Vision, 2021, 21, 2009.	0.1	0
61	The spatial tuning of the visual word form area depends jointly on stimulus type and task demands. Journal of Vision, 2021, 21, 2732.	0.1	0
62	The target similarity conundrum in rapid serial visual presentation. Journal of Vision, 2021, 21, 2793.	0.1	0
63	Stronger BOLD responses along the horizontal meridian in V1. Journal of Vision, 2021, 21, 2608.	0.1	0
64	P-imaging: a technique for comparing visually evoked population responses across visual areas and subjects. Journal of Vision, 2015, 15, 576.	0.1	0
65	Near-perfect prediction of reaction time for face gender judgments based on activity in ventral temporal cortex. Journal of Vision, 2015, 15, 753.	0.1	0
66	Broadband spectral responses in visual cortex revealed by a new MEG denoising algorithm. Journal of Vision, 2015, 15, 1285.	0.1	0
67	How bottom-up and top-down factors shape representation in word- and face-selective cortex. Journal of Vision, 2015, 15, 377.	0.1	0
68	Visualizing allocation of attention in naturalistic scenes: an fMRI p-imaging study of human early visual cortex. Journal of Vision, 2016, 16, 870.	0.1	0
69	Temporal Summation and Adaptation in Human Visual Cortex. Journal of Vision, 2016, 16, 1228.	0.1	0
70	Neural representations of visual stimuli are influenced by cognitive load. Journal of Vision, 2016, 16, 1237.	0.1	0
71	A fully computable model of bottom-up and top-down processing in high-level visual cortex. Journal of Vision, 2016, 16, 509.	0.1	0
72	Mixing deep neural network features to explain brain representations. Journal of Vision, 2016, 16, 369.	0.1	0

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73	Network-level interactions drive response properties in word- and face-selective cortex. Journal of Vision, 2016, 16, 381.	0.1	0
74	What are deep neural networks and what are they good for?. Journal of Vision, 2016, 16, 368.	0.1	0
75	From Retina to Extra-striate Cortex: Forward Models of Visual Input. Journal of Vision, 2017, 17, 10.	0.1	0
76	The impact of noise correlation on multivariate pattern classification in fMRI. , 2018, , .		0
77	The neural substrate for semantic associations underlies color preference judgments. Journal of Vision, 2018, 18, 870.	0.1	0
78	Evidence for Visual Representation of Numerosity in Natural Scenes. , 2019, , .		0
79	Population receptive field measurements of stimulus-driven effects in face-selective areas. Journal of Vision, 2019, 19, 258c.	0.1	0