Cheryl A Olman

List of Publications by Year
in descending order

53	3,386	361296	206029
papers	citations	20 h-index	48 g-index

58	58	58	4632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiband multislice GEâ€EPI at 7 tesla, with 16â€fold acceleration using partial parallel imaging with application to high spatial and temporal wholeâ€brain fMRI. Magnetic Resonance in Medicine, 2010, 63, 1144-1153.	1.9	1,329
2	T1 weighted brain images at 7ÂTesla unbiased for Proton Density, T2âž contrast and RF coil receive B1 sensitivity with simultaneous vessel visualization. NeuroImage, 2009, 46, 432-446.	2.1	260
3	A voxel-wise encoding model for early visual areas decodes mental images of remembered scenes. NeuroImage, 2015, 105, 215-228.	2.1	252
4	Layer-Specific fMRI Reflects Different Neuronal Computations at Different Depths in Human V1. PLoS ONE, 2012, 7, e32536.	1.1	172
5	Metabolic and Hemodynamic Events after Changes in Neuronal Activity: Current Hypotheses, Theoretical Predictions andin vivoNMR Experimental Findings. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 441-463.	2.4	143
6	Distortion and Signal Loss in Medial Temporal Lobe. PLoS ONE, 2009, 4, e8160.	1.1	112
7	Spatial relationship between neuronal activity and BOLD functional MRI. NeuroImage, 2004, 21, 876-885.	2.1	108
8	The effect of large veins on spatial localization with GE BOLD at 3ÂT: Displacement, not blurring. NeuroImage, 2007, 34, 1126-1135.	2.1	93
9	BOLD fMRI and psychophysical measurements of contrast response to broadband images. Vision Research, 2004, 44, 669-683.	0.7	76
10	Representations of Pitch and Timbre Variation in Human Auditory Cortex. Journal of Neuroscience, 2017, 37, 1284-1293.	1.7	73
11	Generative Feedback Explains Distinct Brain Activity Codes for Seen and Mental Images. Current Biology, 2020, 30, 2211-2224.e6.	1.8	56
12	Brain imaging with improved acceleration and SNR at 7 Tesla obtained with 64â€channel receive array. Magnetic Resonance in Medicine, 2019, 82, 495-509.	1.9	53
13	Selective BOLD responses to individual finger movement measured with fMRI at 3T. Human Brain Mapping, 2012, 33, 1594-1606.	1.9	47
14	Retinotopic mapping with spin echo BOLD at 7T. Magnetic Resonance Imaging, 2010, 28, 1258-1269.	1.0	45
15	Reduced contextual effects on visual contrast perception in schizophrenia and bipolar affective disorder. Psychological Medicine, 2015, 45, 3527-3537.	2.7	45
16	Neural correlates of preparatory and regulatory control over positive and negative emotion. Social Cognitive and Affective Neuroscience, 2014, 9, 494-504.	1.5	44
17	High-Field fMRI for Human Applications: An Overview of Spatial Resolution and Signal Specificity. Open Neuroimaging Journal, 2011, 5, 74-89.	0.2	40
18	Spatially Specific fMRI Repetition Effects in Human Visual Cortex. Journal of Neurophysiology, 2006, 95, 2439-2445.	0.9	36

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19	Abnormal Contextual Modulation of Visual Contour Detection in Patients with Schizophrenia. PLoS ONE, 2013, 8, e68090.	1.1	35
20	Reduced influence of perceptual context in schizophrenia: behavioral and neurophysiological evidence. Psychological Medicine, 2021, 51, 786-794.	2.7	26
21	10.5ÂT MRI static field effects on human cognitive, vestibular, and physiological function. Magnetic Resonance Imaging, 2020, 73, 163-176.	1.0	23
22	The psychosis human connectome project: An overview. NeuroImage, 2021, 241, 118439.	2.1	23
23	Retinotopic mapping in cat visual cortex using high-field functional magnetic resonance imaging. Journal of Neuroscience Methods, 2003, 131, 161-170.	1.3	21
24	The effects of orientation and attention during surround suppression of small image features: A 7 Tesla fMRI study. Journal of Vision, 2016, 16, 19.	0.1	21
25	Larger neural responses produce BOLD signals that begin earlier in time. Frontiers in Neuroscience, 2014, 8, 159.	1.4	17
26	Hemifield columns co-opt ocular dominance column structure in human achiasma. NeuroImage, 2018, 164, 59-66.	2.1	16
27	Segmentation decreases the magnitude of the tilt illusion. Journal of Vision, 2013, 13, 19-19.	0.1	15
28	Contrast Response Functions for Single Gabor Patches: ROI-Based Analysis Over-Represents Low-Contrast Patches for GE BOLD. Frontiers in Systems Neuroscience, 2011, 5, 19.	1.2	14
29	Responses in early visual areas to contour integration are context dependent. Journal of Vision, 2016, 16, 19.	0.1	14
30	Intelligence, educational attainment, and brain structure in those at familial highâ€risk for schizophrenia or bipolar disorder. Human Brain Mapping, 2022, 43, 414-430.	1.9	14
31	Assessing methods for geometric distortion compensation in <scp>7â€‰T</scp> gradient echo functional <scp>MRI</scp> data. Human Brain Mapping, 2021, 42, 4205-4223.	1.9	14
32	Forging a path to mesoscopic imaging success with ultra-high field functional magnetic resonance imaging. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200040.	1.8	14
33	Classification objects, ideal observers & generative models. Cognitive Science, 2004, 28, 227-239.	0.8	13
34	Evidence for intact local connectivity but disrupted regional function in the occipital lobe in children and adolescents with schizophrenia. Human Brain Mapping, 2012, 33, 1803-1811.	1.9	13
35	Aberrant Cortical Connectivity During Ambiguous Object Recognition Is Associated With Schizophrenia. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 1193-1201.	1.1	12
36	An exploration of the spatial scale over which orientation-dependent surround effects affect contour detection. Journal of Vision, 2011, 11, 12-12.	0.1	10

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37	Consequences of polar form coherence for fMRI responses in human visual cortex. NeuroImage, 2013, 78, 152-158.	2.1	10
38	20-fold Accelerated 7T fMRI Using Referenceless Self-Supervised Deep Learning Reconstruction. , 2021, 2021, 3765-3769.		10
39	Cortical Correlates of Attention to Auditory Features. Journal of Neuroscience, 2019, 39, 3292-3300.	1.7	8
40	High-resolution BOLD fMRI measurements of local orientation-dependent contextual modulation show a mismatch between predicted V1 output and local BOLD response. Vision Research, 2010, 50, 1214-1224.	0.7	7
41	Scene coherence can affect the local response to natural images in human V1. European Journal of Neuroscience, 2015, 42, 2895-2903.	1.2	7
42	Classification objects, ideal observers & generative models. Cognitive Science, 2004, 28, 227-239.	0.8	7
43	Fragmented ambiguous objects: Stimuli with stable low-level features for object recognition tasks. PLoS ONE, 2019, 14, e0215306.	1.1	6
44	Depth-dependent functional MRI responses to chromatic and achromatic stimuli throughout V1 and V2. NeuroImage, 2021, 226, 117520.	2.1	6
45	Improved Simultaneous Multi-Slice Functional MRI Using Self-supervised Deep Learning. , 2021, , .		6
46	Regions of Mid-level Human Visual Cortex Sensitive to the Global Coherence of Local Image Patches. Journal of Cognitive Neuroscience, 2014, 26, 1764-1774.	1.1	4
47	Self-reported perceptual aberrations in psychosis map to event-related potentials and semantic appraisals of objects.. Journal of Abnormal Psychology, 2021, 130, 785-796.	2.0	4
48	What insights can fMRI offer into the structure and function of mid-tier visual areas?. Visual Neuroscience, 2015, 32, E015.	0.5	3
49	Building a better model of V1. Journal of Vision, 2017, 17, 780.	0.1	2
50	Neuroimaging in Psychiatry. , 2016, , 881-917.		1
51	Perceptual Mechanisms of Visual Hallucinations and Illusions in Psychosis. Journal of Psychiatry and Brain Science, 2020, 5, .	0.3	1
52	Relationship Between Iterative Visual Processing Deficits and Psychotic Symptoms. Journal of Vision, 2018, 18, 33.	0.1	0
53	Neuroimaging in Psychiatry. , 2008, , 695-723.		0