

Lars Muckli

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

5,817
citations

109311

35
h-index

85537

71
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87
all docs

87
docs citations

87
times ranked

5180
citing authors

#	ARTICLE	IF	CITATIONS
1	A self-supervised deep neural network for image completion resembles early visual cortex fMRI activity patterns for occluded scenes. <i>Journal of Vision</i> , 2021, 21, 5.	0.3	4
2	Topographical and laminar distribution of audiovisual processing within human planum temporale. <i>Progress in Neurobiology</i> , 2021, 205, 102121.	5.7	7
3	CEREBRUM ^{7T} : Fast and Fully Volumetric Brain Segmentation of 7 Tesla MR Volumes. <i>Human Brain Mapping</i> , 2021, 42, 5563-5580.	3.6	13
4	Numerosity Perception in Peripheral Vision. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 750417.	2.0	4
5	Special treatment of prediction errors in autism spectrum disorder. <i>Neuropsychologia</i> , 2021, 163, 108070.	1.6	4
6	Multivoxel Pattern of Blood Oxygen Level Dependent Activity can be sensitive to stimulus specific fine scale responses. <i>Scientific Reports</i> , 2020, 10, 7565.	3.3	10
7	Decoding Natural Sounds in Early <i>Visual Cortex</i> of Congenitally Blind Individuals. <i>Current Biology</i> , 2020, 30, 3039-3044.e2.	3.9	41
8	CEREBRUM: a fast and fully-volumetric Convolutional Encoder-decodeR for weakly-supervised sEgmentation of BRain strUctures from out-of-the-scanner MRI. <i>Medical Image Analysis</i> , 2020, 62, 101688.	11.6	30
9	Neuronal codes for predictive processing in cortical layers. <i>Behavioral and Brain Sciences</i> , 2020, 43, e142.	0.7	0
10	Towards a Unified View on Pathways and Functions of Neural Recurrent Processing. <i>Trends in Neurosciences</i> , 2019, 42, 589-603.	8.6	62
11	Transfer learning of deep neural network representations for fMRI decoding. <i>Journal of Neuroscience Methods</i> , 2019, 328, 108319.	2.5	14
12	Scene Representations Conveyed by Cortical Feedback to Early Visual Cortex Can Be Described by Line Drawings. <i>Journal of Neuroscience</i> , 2019, 39, 9410-9423.	3.6	18
13	Laminar fMRI: Applications for cognitive neuroscience. <i>NeuroImage</i> , 2019, 197, 785-791.	4.2	140
14	Forecasting Faces in the Cortex. <i>Trends in Cognitive Sciences</i> , 2018, 22, 95-97.	7.8	3
15	Cortical feedback signals generalise across different spatial frequencies of feedforward inputs. <i>NeuroImage</i> , 2018, 180, 280-290.	4.2	31
16	The Predictive Coding Account of Psychosis. <i>Biological Psychiatry</i> , 2018, 84, 634-643.	1.3	507
17	Temporal multivariate pattern analysis (tMVPA): A single trial approach exploring the temporal dynamics of the BOLD signal. <i>Journal of Neuroscience Methods</i> , 2018, 308, 74-87.	2.5	10
18	A Perspective on Cortical Layering and Layer-Spanning Neuronal Elements. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 56.	1.7	67

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19	Decoding facial expressions across non-overlapping face features in early visual cortex. <i>Journal of Vision</i> , 2018, 18, 913.	0.3	0
20	Contextual modulation of primary visual cortex by auditory signals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160104.	4.0	72
21	The Significance of Memory in Sensory Cortex. <i>Trends in Neurosciences</i> , 2017, 40, 255-256.	8.6	11
22	Predictive feedback to V1 dynamically updates with sensory input. <i>Scientific Reports</i> , 2017, 7, 16538.	3.3	43
23	The laminar integration of sensory inputs with feedback signals in human cortex. <i>Brain and Cognition</i> , 2017, 112, 54-57.	1.8	20
24	The brain's predictive prowess revealed in primary visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1124-1125.	7.1	50
25	Contextual Feedback to Superficial Layers of V1. <i>Current Biology</i> , 2015, 25, 2690-2695.	3.9	303
26	TMS Over V5 Disrupts Motion Prediction. <i>Cerebral Cortex</i> , 2015, 25, 1052-1059.	2.9	60
27	Contributions of cortical feedback to sensory processing in primary visual cortex. <i>Frontiers in Psychology</i> , 2014, 5, 1223.	2.1	47
28	Decoding Sound and Imagery Content in Early Visual Cortex. <i>Current Biology</i> , 2014, 24, 1256-1262.	3.9	233
29	Dissociation of Prediction from Conscious Perception. <i>Perception</i> , 2014, 43, 1107-1113.	1.2	13
30	Network interactions: non-geniculate input to V1. <i>Current Opinion in Neurobiology</i> , 2013, 23, 195-201.	4.2	181
31	Decoding face categories in diagnostic subregions of primary visual cortex. <i>European Journal of Neuroscience</i> , 2013, 37, 1130-1139.	2.6	35
32	Backwards is the way forward: Feedback in the cortical hierarchy predicts the expected future. <i>Behavioral and Brain Sciences</i> , 2013, 36, 221-221.	0.7	7
33	Cortical Depth Dependent Functional Responses in Humans at 7T: Improved Specificity with 3D GRASE. <i>PLoS ONE</i> , 2013, 8, e60514.	2.5	151
34	Visual System. , 2012, , 1301-1327.		8
35	Detection of visual events along the apparent motion trace in patients with paranoid schizophrenia. <i>Psychiatry Research</i> , 2012, 198, 216-223.	3.3	9
36	Transfer of Predictive Signals Across Saccades. <i>Frontiers in Psychology</i> , 2012, 3, 176.	2.1	19

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37	Reading others'™ minds by measuring their brains: Fascinating and challenging for science, but ready for use in court?. <i>Cortex</i> , 2011, 47, 1240-1242.	2.4	25
38	Investigating human audio-visual object perception with a combination of hypothesis-generating and hypothesis-testing fMRI analysis tools. <i>Experimental Brain Research</i> , 2011, 213, 309-320.	1.5	9
39	What are we missing here? Brain imaging evidence for higher cognitive functions in primary visual cortex V1. <i>International Journal of Imaging Systems and Technology</i> , 2010, 20, 131-139.	4.1	72
40	Does Area V3A Predict Positions of Moving Objects?. <i>Frontiers in Psychology</i> , 2010, 1, 186.	2.1	25
41	Stimulus Predictability Reduces Responses in Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 2960-2966.	3.6	441
42	Nonstimulated early visual areas carry information about surrounding context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20099-20103.	7.1	165
43	Imagery of a moving object: The role of occipital cortex and human MT/V5+. <i>NeuroImage</i> , 2010, 49, 794-804.	4.2	77
44	Performance- and stimulus-dependent oscillations in monkey prefrontal cortex during short-term memory. <i>Frontiers in Integrative Neuroscience</i> , 2009, 3, 25.	2.1	28
45	Bilateral visual field maps in a patient with only one hemisphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13034-13039.	7.1	89
46	The Timing of Feedback to Early Visual Cortex in the Perception of Long-Range Apparent Motion. <i>Cerebral Cortex</i> , 2009, 19, 1567-1582.	2.9	66
47	Cortical Plasticity of Audio-Visual Object Representations. <i>Cerebral Cortex</i> , 2009, 19, 1641-1653.	2.9	66
48	Interocular transfer of orientation-specific fMRI adaptation reveals amblyopia-related deficits in humans. <i>Vision Research</i> , 2009, 49, 1681-1692.	1.4	12
49	Cortical responses to self and others. <i>Human Brain Mapping</i> , 2009, 30, 951-962.	3.6	107
50	Distinct cortical networks for the detection and identification of human body. <i>NeuroImage</i> , 2009, 45, 1264-1271.	4.2	143
51	Methods for Dichoptic Stimulus Presentation in Functional Magnetic Resonance Imaging - A Review. <i>Open Neuroimaging Journal</i> , 2009, 3, 17-25.	0.2	8
52	Deciding what to see: The role of intention and attention in the perception of apparent motion. <i>Vision Research</i> , 2008, 48, 1096-1106.	1.4	43
53	Classification images reveal the information sensitivity of brain voxels in fMRI. <i>NeuroImage</i> , 2008, 40, 1643-1654.	4.2	19
54	Capture of Auditory Motion by Vision Is Represented by an Activation Shift from Auditory to Visual Motion Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 2690-2697.	3.6	78

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55	Functional Magnetic Resonance Adaptation in Visual Neuroscience. <i>Reviews in the Neurosciences</i> , 2008, 19, 363-80.	2.9	42
56	Object Familiarity and Semantic Congruency Modulate Responses in Cortical Audiovisual Integration Areas. <i>Journal of Neuroscience</i> , 2007, 27, 7881-7887.	3.6	190
57	The Cortical Representation of Objects Rotating in Depth. <i>Journal of Neuroscience</i> , 2007, 27, 3864-3874.	3.6	27
58	Time-dependent effects of hyperoxia on the BOLD fMRI signal in primate visual cortex and LGN. <i>NeuroImage</i> , 2007, 35, 1044-1063.	4.2	18
59	A Pilot Study for Investigating Cortical Binocularity in Humans using fMRI Adaptation. <i>Strabismus</i> , 2007, 15, 33-37.	0.7	8
60	Separate cortical stages in amodal completion revealed by functional magnetic resonance adaptation. <i>BMC Neuroscience</i> , 2007, 8, 70.	1.9	33
61	A spatio-temporal interaction on the apparent motion trace. <i>Vision Research</i> , 2007, 47, 3424-3433.	1.4	35
62	Retinotopic effects during spatial audio-visual integration. <i>Neuropsychologia</i> , 2007, 45, 531-539.	1.6	43
63	The temporal characteristics of motion processing in hMT/V5+: Combining fMRI and neuronavigated TMS. <i>NeuroImage</i> , 2006, 29, 1326-1335.	4.2	109
64	Tight covariation of BOLD signal changes and slow ERPs in the parietal cortex in a parametric spatial imagery task with haptic acquisition. <i>European Journal of Neuroscience</i> , 2006, 23, 1910-1918.	2.6	32
65	Cerebral correlates of impaired grating perception in individual, psychophysically assessed human amblyopes. <i>Vision Research</i> , 2006, 46, 506-526.	1.4	98
66	Primary Visual Cortex Activity along the Apparent-Motion Trace Reflects Illusory Perception. <i>PLoS Biology</i> , 2005, 3, e265.	5.6	196
67	Visual System. , 2004, , 1280-1305.		7
68	Cortical capacity constraints for visual working memory: dissociation of fMRI load effects in a fronto-parietal network. <i>NeuroImage</i> , 2003, 20, 1518-1530.	4.2	292
69	Distributed Cortical Systems in Visual Short-term Memory Revealed by Event-related Functional Magnetic Resonance Imaging. <i>Cerebral Cortex</i> , 2002, 12, 866-876.	2.9	126
70	Integration of Multiple Motion Vectors Over Space: An fMRI Study of Transparent Motion Perception. <i>NeuroImage</i> , 2002, 16, 843-856.	4.2	42
71	Apparent Motion: Event-Related Functional Magnetic Resonance Imaging of Perceptual Switches and States. <i>Journal of Neuroscience</i> , 2002, 22, RC219-RC219.	3.6	102
72	Sustained extrastriate cortical activation without visual awareness revealed by fMRI studies of hemianopic patients. <i>Vision Research</i> , 2001, 41, 1459-1474.	1.4	232

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73	Arguments and deontic decisions. <i>Acta Psychologica</i> , 1999, 101, 27-47.	1.5	12
74	The constructive nature of vision: direct evidence from functional magnetic resonance imaging studies of apparent motion and motion imagery. <i>European Journal of Neuroscience</i> , 1998, 10, 1563-1573.	2.6	429
75	7. Motion Perception and Motion Imagery: New Evidence of Constructive Brain Processes from Functional Magnetic Resonance Imaging Studies. , 0, , .		1