

Kalanit Grill-Spector

List of Publications by Citations

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117
papers

13,089
citations

44
h-index

114
g-index

140
ext. papers

15,250
ext. citations

7
avg, IF

6.79
L-index

#	Paper	IF	Citations
117	Repetition and the brain: neural models of stimulus-specific effects. <i>Trends in Cognitive Sciences</i> , 2006 , 10, 14-23	14	1827
116	Differential processing of objects under various viewing conditions in the human lateral occipital complex. <i>Neuron</i> , 1999 , 24, 187-203	13.9	987
115	The lateral occipital complex and its role in object recognition. <i>Vision Research</i> , 2001 , 41, 1409-22	2.1	949
114	fMR-adaptation: a tool for studying the functional properties of human cortical neurons. <i>Acta Psychologica</i> , 2001 , 107, 293-321	1.7	827
113	The human visual cortex. <i>Annual Review of Neuroscience</i> , 2004 , 27, 649-77	17	764
112	The fusiform face area subserves face perception, not generic within-category identification. <i>Nature Neuroscience</i> , 2004 , 7, 555-62	25.5	713
111	The dynamics of object-selective activation correlate with recognition performance in humans. <i>Nature Neuroscience</i> , 2000 , 3, 837-43	25.5	479
110	The functional architecture of the ventral temporal cortex and its role in categorization. <i>Nature Reviews Neuroscience</i> , 2014 , 15, 536-48	13.5	438
109	The neural basis of object perception. <i>Current Opinion in Neurobiology</i> , 2003 , 13, 159-66	7.6	420
108	Differential development of high-level visual cortex correlates with category-specific recognition memory. <i>Nature Neuroscience</i> , 2007 , 10, 512-22	25.5	382
107	Visual recognition: as soon as you know it is there, you know what it is. <i>Psychological Science</i> , 2005 , 16, 152-60	7.9	365
106	A sequence of object-processing stages revealed by fMRI in the human occipital lobe. <i>Human Brain Mapping</i> , 1998 , 6, 316-28	5.9	352
105	Cue-invariant activation in object-related areas of the human occipital lobe. <i>Neuron</i> , 1998 , 21, 191-202	13.9	344
104	High-resolution imaging reveals highly selective nonface clusters in the fusiform face area. <i>Nature Neuroscience</i> , 2006 , 9, 1177-85	25.5	247
103	Electrical stimulation of human fusiform face-selective regions distorts face perception. <i>Journal of Neuroscience</i> , 2012 , 32, 14915-20	6.6	238
102	Sparsely-distributed organization of face and limb activations in human ventral temporal cortex. <i>NeuroImage</i> , 2010 , 52, 1559-73	7.9	219
101	The mid-fusiform sulcus: a landmark identifying both cytoarchitectonic and functional divisions of human ventral temporal cortex. <i>NeuroImage</i> , 2014 , 84, 453-65	7.9	149

100	Global similarity and pattern separation in the human medial temporal lobe predict subsequent memory. <i>Journal of Neuroscience</i> , 2013 , 33, 5466-74	6.6	139
99	Neural representations of faces and limbs neighbor in human high-level visual cortex: evidence for a new organization principle. <i>Psychological Research</i> , 2013 , 77, 74-97	2.5	132
98	Relating retinotopic and object-selective responses in human lateral occipital cortex. <i>Journal of Neurophysiology</i> , 2008 , 100, 249-67	3.2	128
97	Functionally defined white matter reveals segregated pathways in human ventral temporal cortex associated with category-specific processing. <i>Neuron</i> , 2015 , 85, 216-227	13.9	126
96	Electrical stimulation of the left and right human fusiform gyrus causes different effects in conscious face perception. <i>Journal of Neuroscience</i> , 2014 , 34, 12828-36	6.6	124
95	Object-selective cortex exhibits performance-independent repetition suppression. <i>Journal of Neurophysiology</i> , 2006 , 95, 995-1007	3.2	123
94	Attention reduces spatial uncertainty in human ventral temporal cortex. <i>Current Biology</i> , 2015 , 25, 595-600	6.0	119
93	Not one extrastriate body area: using anatomical landmarks, hMT+, and visual field maps to parcellate limb-selective activations in human lateral occipitotemporal cortex. <i>NeuroImage</i> , 2011 , 56, 2183-99	7.9	116
92	Differential development of the ventral visual cortex extends through adolescence. <i>Frontiers in Human Neuroscience</i> , 2010 , 3, 80	3.3	115
91	Autism and the development of face processing. <i>Clinical Neuroscience Research</i> , 2006 , 6, 145-160		115
90	The Functional Neuroanatomy of Human Face Perception. <i>Annual Review of Vision Science</i> , 2017 , 3, 167-196	19.6	114
89	The improbable simplicity of the fusiform face area. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 251-4	14	112
88	Apparent thinning of human visual cortex during childhood is associated with myelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20750-20759	11.5	110
87	fMRI-adaptation and category selectivity in human ventral temporal cortex: regional differences across time scales. <i>Journal of Neurophysiology</i> , 2010 , 103, 3349-65	3.2	110
86	Microstructural proliferation in human cortex is coupled with the development of face processing. <i>Science</i> , 2017 , 355, 68-71	33.3	107
85	Developmental neuroimaging of the human ventral visual cortex. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 152-62	14	106
84	Temporal Processing Capacity in High-Level Visual Cortex Is Domain Specific. <i>Journal of Neuroscience</i> , 2015 , 35, 12412-24	6.6	80
83	Toward direct visualization of the internal shape representation space by fMRI. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1998 , 26, 309-321		80

82	Representation of shapes, edges, and surfaces across multiple cues in the human visual cortex. <i>Journal of Neurophysiology</i> , 2008 , 99, 1380-93	3.2	78
81	Corresponding ECoG and fMRI category-selective signals in human ventral temporal cortex. <i>Neuropsychologia</i> , 2016 , 83, 14-28	3.2	71
80	Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus. <i>Cerebral Cortex</i> , 2017 , 27, 373-385	5.1	70
79	Development differentially sculpts receptive fields across early and high-level human visual cortex. <i>Nature Communications</i> , 2018 , 9, 788	17.4	63
78	The representation of object viewpoint in human visual cortex. <i>NeuroImage</i> , 2009 , 45, 522-36	7.9	59
77	The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 146-161	5.1	57
76	The fusiform face area is enlarged in Williams syndrome. <i>Journal of Neuroscience</i> , 2010 , 30, 6700-12	6.6	52
75	Selectivity of adaptation in single units: implications for fMRI experiments. <i>Neuron</i> , 2006 , 49, 170-1	13.9	47
74	Where is human V4? Predicting the location of hV4 and VO1 from cortical folding. <i>Cerebral Cortex</i> , 2014 , 24, 2401-8	5.1	45
73	Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation. <i>NeuroImage</i> , 2018 , 170, 373-384	7.9	43
72	Development of Neural Sensitivity to Face Identity Correlates with Perceptual Discriminability. <i>Journal of Neuroscience</i> , 2016 , 36, 10893-10907	6.6	42
71	A cross-validated cytoarchitectonic atlas of the human ventral visual stream. <i>NeuroImage</i> , 2018 , 170, 257-270	7.9	40
70	White matter microstructure on diffusion tensor imaging is associated with conventional magnetic resonance imaging findings and cognitive function in adolescents born preterm. <i>Developmental Medicine and Child Neurology</i> , 2012 , 54, 809-14	3.3	40
69	Task alters category representations in prefrontal but not high-level visual cortex. <i>NeuroImage</i> , 2017 , 155, 437-449	7.9	39
68	Experience Shapes the Development of Neural Substrates of Face Processing in Human Ventral Temporal Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 1229-1244	5.1	39
67	The functional neuroanatomy of face perception: from brain measurements to deep neural networks. <i>Interface Focus</i> , 2018 , 8, 20180013	3.9	38
66	The Face-Processing Network Is Resilient to Focal Resection of Human Visual Cortex. <i>Journal of Neuroscience</i> , 2016 , 36, 8425-40	6.6	34
65	Fine-scale spatial organization of face and object selectivity in the temporal lobe: do functional magnetic resonance imaging, optical imaging, and electrophysiology agree?. <i>Journal of Neuroscience</i> , 2008 , 28, 11796-801	6.6	31

64	Extensive childhood experience with Pokémon suggests eccentricity drives organization of visual cortex. <i>Nature Human Behaviour</i> , 2019 , 3, 611-624	12.8	29
63	The evolution of face processing networks. <i>Trends in Cognitive Sciences</i> , 2015 , 19, 240-1	14	29
62	Encoding model of temporal processing in human visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E11047-E11056	11.5	29
61	Face-likeness and image variability drive responses in human face-selective ventral regions. <i>Human Brain Mapping</i> , 2012 , 33, 2334-49	5.9	29
60	A preference for mathematical processing outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. <i>NeuroImage</i> , 2018 , 175, 188-200	7.9	25
59	Neural adaptation to faces reveals racial outgroup homogeneity effects in early perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14532-14537	11.5	25
58	On object selectivity and the anatomy of the human fusiform gyrus. <i>NeuroImage</i> , 2018 , 173, 604-609	7.9	22
57	Object Recognition: Insights From Advances in fMRI Methods. <i>Current Directions in Psychological Science</i> , 2008 , 17, 73-79	6.5	22
56	Separate lanes for adding and reading in the white matter highways of the human brain. <i>Nature Communications</i> , 2019 , 10, 3675	17.4	15
55	A Probabilistic Functional Atlas of Human Occipito-Temporal Visual Cortex. <i>Cerebral Cortex</i> , 2021 , 31, 603-619	5.1	15
54	Reduced spatial integration in the ventral visual cortex underlies face recognition deficits in developmental prosopagnosia		14
53	Differential sustained and transient temporal processing across visual streams. <i>PLoS Computational Biology</i> , 2019 , 15, e1007011	5	12
52	Semantic versus perceptual priming in fusiform cortex. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 227-228	14	12
51	fMRI Adaptation: A Tool for Studying Visual Representations in the Primate Brain 2005 , 173-188		12
50	Learning to Read Increases the Informativeness of Distributed Ventral Temporal Responses. <i>Cerebral Cortex</i> , 2019 , 29, 3124-3139	5.1	12
49	Development of population receptive fields in the lateral visual stream improves spatial coding amid stable structural-functional coupling. <i>NeuroImage</i> , 2019 , 188, 59-69	7.9	11
48	Ultra-high-resolution fMRI of Human Ventral Temporal Cortex Reveals Differential Representation of Categories and Domains. <i>Journal of Neuroscience</i> , 2020 , 40, 3008-3024	6.6	8
47	Differential spatial computations in ventral and lateral face-selective regions are scaffolded by structural connections. <i>Nature Communications</i> , 2021 , 12, 2278	17.4	8

46	Feature saliency and feedback information interactively impact visual category learning. <i>Frontiers in Psychology</i> , 2015 , 6, 74	3.4	7
45	Apparent thinning of visual cortex during childhood is associated with myelination, not pruning		7
44	Cortical recycling in high-level visual cortex during childhood development. <i>Nature Human Behaviour</i> , 2021 ,	12.8	7
43	Spatiotemporal information during unsupervised learning enhances viewpoint invariant object recognition. <i>Journal of Vision</i> , 2015 , 15, 7	0.4	6
42	Diverse Temporal Dynamics of Repetition Suppression Revealed by Intracranial Recordings in the Human Ventral Temporal Cortex. <i>Cerebral Cortex</i> , 2020 , 30, 5988-6003	5.1	5
41	Sulcal Depth in the Medial Ventral Temporal Cortex Predicts the Location of a Place-Selective Region in Macaques, Children, and Adults. <i>Cerebral Cortex</i> , 2021 , 31, 48-61	5.1	5
40	Data on a cytoarchitectonic brain atlas: effects of brain template and a comparison to a multimodal atlas. <i>Data in Brief</i> , 2017 , 12, 327-332	1.2	4
39	What Has fMRI Taught Us About Object Recognition?102-128		4
38	The Interplay between Feature-Saliency and Feedback Information in Visual Category Learning Tasks 2012 , 2012, 420-425		4
37	X-Chromosome Insufficiency Alters Receptive Fields across the Human Early Visual Cortex. <i>Journal of Neuroscience</i> , 2019 , 39, 8079-8088	6.6	3
36	Synchrony upon repetition: One or multiple neural mechanisms?. <i>Cognitive Neuroscience</i> , 2012 , 3, 243-4	1.7	3
35	Cortical recycling in high-level visual cortex during childhood development		3
34	White matter fascicles and cortical microstructure predict reading-related responses in human ventral temporal cortex. <i>NeuroImage</i> , 2021 , 227, 117669	7.9	3
33	The Functional Neuroanatomy of Face Processing: Insights from Neuroimaging and Implications for Deep Learning. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 3-31	1.1	2
32	Deos the bairn not raed ervey lteter by istlef, but the wrod as a wlohe?. <i>Neuron</i> , 2009 , 62, 161-2	13.9	2
31	Occipital Lobe 2003 , 653-660		2
30	Establishing the functional relevancy of white matter connections in the visual system and beyond. <i>Brain Structure and Function</i> , 2021 , 1	4	2
29	InfantsXcortex undergoes microstructural growth coupled with myelination during development. <i>Communications Biology</i> , 2021 , 4, 1191	6.7	2

28	Learning to read increases the informativeness of distributed ventral temporal responses		2
27	An encoding model of temporal processing in human visual cortex		2
26	Learning the 3-D structure of objects from 2-D views depends on shape, not format. <i>Journal of Vision</i> , 2016 , 16, 7	0.4	2
25	Holistic face recognition is an emergent phenomenon of spatial processing in face-selective regions. <i>Nature Communications</i> , 2021 , 12, 4745	17.4	2
24	Holistic face recognition is an emergent phenomenon of spatial integration in face-selective regions		1
23	Selectivity to limbs in ventral temporal cortex decreases during childhood as selectivity to faces and words increases. <i>Journal of Vision</i> , 2020 , 20, 152	0.4	1
22	Gray Matter Thinning in Ventral Temporal Cortex from Childhood to Adulthood is Associated with Increased Myelination. <i>Journal of Vision</i> , 2018 , 18, 542	0.4	1
21	Differential spatial computations in ventral and lateral face-selective regions are scaffolded by structural connections		1
20	Sulcal depth in medial ventral temporal cortex predicts the location of a place-selective region in macaques, children, and adults		1
19	Separate lanes for math and reading in the white matter highways of the human brain		1
18	Development differentially sculpts population receptive fields across human visual cortex. <i>Journal of Vision</i> , 2017 , 17, 608	0.4	1
17	The structure of depressive symptoms and characteristics and their relation to overall severity in major depressive disorder. <i>Psychiatry Research</i> , 2020 , 294, 113399	9.9	1
16	White matter myelination during early infancy is explained by spatial gradients and myelin content at birth		1
15	InfantsXcortex undergoes microstructural growth coupled with myelination		1
14	White matter myelination during early infancy is linked to spatial gradients and myelin content at birth.. <i>Nature Communications</i> , 2022 , 13, 997	17.4	1
13	Combined Neural Tuning in Human Ventral Temporal Cortex Resolves the Perceptual Ambiguity of Morphed 2D Images. <i>Cerebral Cortex</i> , 2020 , 30, 4882-4898	5.1	0
12	Attention enhances category representations across the brain with strengthened residual correlations to ventral temporal cortex.. <i>NeuroImage</i> , 2022 , 249, 118900	7.9	0
11	White matter anatomy and cortical microstructure predict reading-related responses in ventral temporal cortex. <i>Journal of Vision</i> , 2020 , 20, 201	0.4	

- 10 Eccentricity drives developmental organization of human high-level visual cortex. *Journal of Vision*, **2018**, 18, 1149 0.4
- 9 A preference for mathematical tasks outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. *Journal of Vision*, **2018**, 18, 551 0.4
- 8 Differential responses across body- and face-selective cortex predict visual categorization behavior. *Journal of Vision*, **2018**, 18, 1091 0.4
- 7 Ultra-high-resolution fMRI reveals differential representation of categories and domains across lateral and medial ventral temporal cortex. *Journal of Vision*, **2019**, 19, 249a 0.4
- 6 How learning to read affects the function and structure of ventral temporal cortex. *Journal of Vision*, **2019**, 19, 4c 0.4
- 5 Differential white matter connections to ventral and lateral occipito-temporal face-selective regions underlie differences in visual field coverage. *Journal of Vision*, **2019**, 19, 54b 0.4
- 4 Population receptive field measurements of stimulus-driven effects in face-selective areas. *Journal of Vision*, **2019**, 19, 258c 0.4
- 3 Human visual cortex as a window into the developing brain. *Journal of Vision*, **2019**, 19, 17 0.4
- 2 Training a deep convolutional neural network with multiple face sizes and positions, but not resolutions, is necessary for generating invariant face recognition across these transformations. *Journal of Vision*, **2017**, 17, 247 0.4
- 1 Development of neural sensitivity to face identity correlates with perceptual discriminability. *Journal of Vision*, **2017**, 17, 23 0.4