

Kalanit Grill-Spector

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4983453/publications.pdf>

Version: 2024-02-01

117
papers

16,704
citations

50170

46
h-index

35952

97
g-index

140
all docs

140
docs citations

140
times ranked

10600
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Repetition and the brain: neural models of stimulus-specific effects. Trends in Cognitive Sciences, 2006, 10, 14-23. | 4.0 | 2,126 |
| 2 | The lateral occipital complex and its role in object recognition. Vision Research, 2001, 41, 1409-1422. | 0.7 | 1,178 |
| 3 | Differential Processing of Objects under Various Viewing Conditions in the Human Lateral Occipital Complex. Neuron, 1999, 24, 187-203. | 3.8 | 1,104 |
| 4 | fMR-adaptation: a tool for studying the functional properties of human cortical neurons. Acta Psychologica, 2001, 107, 293-321. | 0.7 | 978 |
| 5 | THE HUMAN VISUAL CORTEX. Annual Review of Neuroscience, 2004, 27, 649-677. | 5.0 | 941 |
| 6 | The fusiform face area subserves face perception, not generic within-category identification. Nature Neuroscience, 2004, 7, 555-562. | 7.1 | 841 |
| 7 | The functional architecture of the ventral temporal cortex and its role in categorization. Nature Reviews Neuroscience, 2014, 15, 536-548. | 4.9 | 656 |
| 8 | The dynamics of object-selective activation correlate with recognition performance in humans. Nature Neuroscience, 2000, 3, 837-843. | 7.1 | 529 |
| 9 | The neural basis of object perception. Current Opinion in Neurobiology, 2003, 13, 159-166. | 2.0 | 503 |
| 10 | Differential development of high-level visual cortex correlates with category-specific recognition memory. Nature Neuroscience, 2007, 10, 512-522. | 7.1 | 465 |
| 11 | A sequence of object-processing stages revealed by fMRI in the human occipital lobe. Human Brain Mapping, 1998, 6, 316-328. | 1.9 | 438 |
| 12 | Visual Recognition. Psychological Science, 2005, 16, 152-160. | 1.8 | 419 |
| 13 | Cue-Invariant Activation in Object-Related Areas of the Human Occipital Lobe. Neuron, 1998, 21, 191-202. | 3.8 | 386 |
| 14 | Electrical Stimulation of Human Fusiform Face-Selective Regions Distorts Face Perception. Journal of Neuroscience, 2012, 32, 14915-14920. | 1.7 | 327 |
| 15 | High-resolution imaging reveals highly selective nonface clusters in the fusiform face area. Nature Neuroscience, 2006, 9, 1177-1185. | 7.1 | 266 |
| 16 | Sparsely-distributed organization of face and limb activations in human ventral temporal cortex. NeuroImage, 2010, 52, 1559-1573. | 2.1 | 262 |
| 17 | Apparent thinning of human visual cortex during childhood is associated with myelination. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20750-20759. | 3.3 | 231 |
| 18 | The mid-fusiform sulcus: A landmark identifying both cytoarchitectonic and functional divisions of human ventral temporal cortex. NeuroImage, 2014, 84, 453-465. | 2.1 | 212 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The Functional Neuroanatomy of Human Face Perception. Annual Review of Vision Science, 2017, 3, 167-196. | 2.3 | 186 |
| 20 | Attention Reduces Spatial Uncertainty in Human Ventral Temporal Cortex. Current Biology, 2015, 25, 595-600. | 1.8 | 185 |
| 21 | Neural representations of faces and limbs neighbor in human high-level visual cortex: evidence for a new organization principle. Psychological Research, 2013, 77, 74-97. | 1.0 | 182 |
| 22 | Global Similarity and Pattern Separation in the Human Medial Temporal Lobe Predict Subsequent Memory. Journal of Neuroscience, 2013, 33, 5466-5474. | 1.7 | 182 |
| 23 | Electrical Stimulation of the Left and Right Human Fusiform Gyrus Causes Different Effects in Conscious Face Perception. Journal of Neuroscience, 2014, 34, 12828-12836. | 1.7 | 177 |
| 24 | Relating Retinotopic and Object-Selective Responses in Human Lateral Occipital Cortex. Journal of Neurophysiology, 2008, 100, 249-267. | 0.9 | 165 |
| 25 | Functionally Defined White Matter Reveals Segregated Pathways in Human Ventral Temporal Cortex Associated with Category-Specific Processing. Neuron, 2015, 85, 216-227. | 3.8 | 161 |
| 26 | Temporal Processing Capacity in High-Level Visual Cortex Is Domain Specific. Journal of Neuroscience, 2015, 35, 12412-12424. | 1.7 | 152 |
| 27 | Microstructural proliferation in human cortex is coupled with the development of face processing. Science, 2017, 355, 68-71. | 6.0 | 150 |
| 28 | Autism and the development of face processing. Clinical Neuroscience Research, 2006, 6, 145-160. | 0.8 | 147 |
| 29 | Not one extrastriate body area: Using anatomical landmarks, hMT+, and visual field maps to parcellate limb-selective activations in human lateral occipitotemporal cortex. NeuroImage, 2011, 56, 2183-2199. | 2.1 | 147 |
| 30 | Differential development of the ventral visual cortex extends through adolescence. Frontiers in Human Neuroscience, 2010, 3, 80. | 1.0 | 146 |
| 31 | fMRI-Adaptation and Category Selectivity in Human Ventral Temporal Cortex: Regional Differences Across Time Scales. Journal of Neurophysiology, 2010, 103, 3349-3365. | 0.9 | 146 |
| 32 | Object-Selective Cortex Exhibits Performance-Independent Repetition Suppression. Journal of Neurophysiology, 2006, 95, 995-1007. | 0.9 | 138 |
| 33 | Toward direct visualization of the internal shape representation space by fMRI. Cognitive, Affective and Behavioral Neuroscience, 1998, 26, 309-321. | 1.2 | 138 |
| 34 | The improbable simplicity of the fusiform face area. Trends in Cognitive Sciences, 2012, 16, 251-254. | 4.0 | 134 |
| 35 | Developmental neuroimaging of the human ventral visual cortex. Trends in Cognitive Sciences, 2008, 12, 152-162. | 4.0 | 132 |
| 36 | Corresponding ECoG and fMRI category-selective signals in human ventral temporal cortex. Neuropsychologia, 2016, 83, 14-28. | 0.7 | 105 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Development differentially sculpts receptive fields across early and high-level human visual cortex. <i>Nature Communications</i> , 2018, 9, 788. | 5.8 | 102 |
| 38 | Representation of Shapes, Edges, and Surfaces Across Multiple Cues in the Human Visual Cortex. <i>Journal of Neurophysiology</i> , 2008, 99, 1380-1393. | 0.9 | 96 |
| 39 | The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex. <i>Cerebral Cortex</i> , 2017, 27, 146-161. | 1.6 | 94 |
| 40 | Two New Cytoarchitectonic Areas on the Human Mid-Fusiform Gyrus. <i>Cerebral Cortex</i> , 2017, 27, bhv225. | 1.6 | 91 |
| 41 | Defining the most probable location of the parahippocampal place area using cortex-based alignment and cross-validation. <i>NeuroImage</i> , 2018, 170, 373-384. | 2.1 | 71 |
| 42 | Development of Neural Sensitivity to Face Identity Correlates with Perceptual Discriminability. <i>Journal of Neuroscience</i> , 2016, 36, 10893-10907. | 1.7 | 68 |
| 43 | The representation of object viewpoint in human visual cortex. <i>NeuroImage</i> , 2009, 45, 522-536. | 2.1 | 66 |
| 44 | The Fusiform Face Area is Enlarged in Williams Syndrome. <i>Journal of Neuroscience</i> , 2010, 30, 6700-6712. | 1.7 | 63 |
| 45 | A cross-validated cytoarchitectonic atlas of the human ventral visual stream. <i>NeuroImage</i> , 2018, 170, 257-270. | 2.1 | 63 |
| 46 | Extensive childhood experience with Pokémon suggests eccentricity drives organization of visual cortex. <i>Nature Human Behaviour</i> , 2019, 3, 611-624. | 6.2 | 63 |
| 47 | 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. | 3.3 | 62 |
| 48 | Where Is Human V4? Predicting the Location of hV4 and VO1 from Cortical Folding. <i>Cerebral Cortex</i> , 2014, 24, 2401-2408. | 1.6 | 61 |
| 49 | The functional neuroanatomy of face perception: from brain measurements to deep neural networks. <i>Interface Focus</i> , 2018, 8, 20180013. | 1.5 | 58 |
| 50 | Task alters category representations in prefrontal but not high-level visual cortex. <i>NeuroImage</i> , 2017, 155, 437-449. | 2.1 | 55 |
| 51 | Selectivity of Adaptation in Single Units: Implications for fMRI Experiments. <i>Neuron</i> , 2006, 49, 170-171. | 3.8 | 54 |
| 52 | Experience Shapes the Development of Neural Substrates of Face Processing in Human Ventral Temporal Cortex. <i>Cerebral Cortex</i> , 2017, 27, bhv314. | 1.6 | 54 |
| 53 | A Probabilistic Functional Atlas of Human Occipito-Temporal Visual Cortex. <i>Cerebral Cortex</i> , 2021, 31, 603-619. | 1.6 | 53 |
| 54 | The Face-Processing Network Is Resilient to Focal Resection of Human Visual Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 8425-8440. | 1.7 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | On object selectivity and the anatomy of the human fusiform gyrus. <i>NeuroImage</i> , 2018, 173, 604-609. | 2.1 | 49 |
| 56 | The evolution of face processing networks. <i>Trends in Cognitive Sciences</i> , 2015, 19, 240-241. | 4.0 | 48 |
| 57 | 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, 809-814. | 1.1 | 45 |
| 58 | Face-likeness and image variability drive responses in human face-selective ventral regions. <i>Human Brain Mapping</i> , 2012, 33, 2334-2349. | 1.9 | 40 |
| 59 | A preference for mathematical processing outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. <i>NeuroImage</i> , 2018, 175, 188-200. | 2.1 | 38 |
| 60 | 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. | 3.3 | 37 |
| 61 | Differential spatial computations in ventral and lateral face-selective regions are scaffolded by structural connections. <i>Nature Communications</i> , 2021, 12, 2278. | 5.8 | 37 |
| 62 | Cortical recycling in high-level visual cortex during childhood development. <i>Nature Human Behaviour</i> , 2021, 5, 1686-1697. | 6.2 | 36 |
| 63 | 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, 11796-11801. | 1.7 | 34 |
| 64 | Object Recognition. <i>Current Directions in Psychological Science</i> , 2008, 17, 73-79. | 2.8 | 32 |
| 65 | White matter myelination during early infancy is linked to spatial gradients and myelin content at birth. <i>Nature Communications</i> , 2022, 13, 997. | 5.8 | 29 |
| 66 | 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. | 1.7 | 28 |
| 67 | Separate lanes for adding and reading in the white matter highways of the human brain. <i>Nature Communications</i> , 2019, 10, 3675. | 5.8 | 25 |
| 68 | Differential sustained and transient temporal processing across visual streams. <i>PLoS Computational Biology</i> , 2019, 15, e1007011. | 1.5 | 25 |
| 69 | 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. | 1.6 | 24 |
| 70 | Holistic face recognition is an emergent phenomenon of spatial processing in face-selective regions. <i>Nature Communications</i> , 2021, 12, 4745. | 5.8 | 22 |
| 71 | Learning to Read Increases the Informativeness of Distributed Ventral Temporal Responses. <i>Cerebral Cortex</i> , 2019, 29, 3124-3139. | 1.6 | 21 |
| 72 | 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. | 2.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | White matter fascicles and cortical microstructure predict reading-related responses in human ventral temporal cortex. <i>NeuroImage</i> , 2021, 227, 117669. | 2.1 | 16 |
| 74 | Infants's cortex undergoes microstructural growth coupled with myelination during development. <i>Communications Biology</i> , 2021, 4, 1191. | 2.0 | 15 |
| 75 | Semantic versus perceptual priming in fusiform cortex. <i>Trends in Cognitive Sciences</i> , 2001, 5, 227-228. | 4.0 | 13 |
| 76 | fMRI Adaptation: A Tool for Studying Visual Representations in the Primate Brain. , 2005, , 173-188. | | 13 |
| 77 | Feature saliency and feedback information interactively impact visual category learning. <i>Frontiers in Psychology</i> , 2015, 6, 74. | 1.1 | 9 |
| 78 | Diverse Temporal Dynamics of Repetition Suppression Revealed by Intracranial Recordings in the Human Ventral Temporal Cortex. <i>Cerebral Cortex</i> , 2020, 30, 5988-6003. | 1.6 | 9 |
| 79 | Establishing the functional relevancy of white matter connections in the visual system and beyond. <i>Brain Structure and Function</i> , 2022, 227, 1347-1356. | 1.2 | 8 |
| 80 | Spatiotemporal information during unsupervised learning enhances viewpoint invariant object recognition. <i>Journal of Vision</i> , 2015, 15, 7. | 0.1 | 7 |
| 81 | X-Chromosome Insufficiency Alters Receptive Fields across the Human Early Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 8079-8088. | 1.7 | 7 |
| 82 | Attention enhances category representations across the brain with strengthened residual correlations to ventral temporal cortex. <i>NeuroImage</i> , 2022, 249, 118900. | 2.1 | 7 |
| 83 | White matter connections of high-level visual areas predict cytoarchitecture better than category-selectivity in childhood, but not adulthood. <i>Cerebral Cortex</i> , 2023, 33, 2485-2506. | 1.6 | 7 |
| 84 | What Has fMRI Taught Us About Object Recognition?. , 0, , 102-128. | | 6 |
| 85 | Learning the 3-D structure of objects from 2-D views depends on shape, not format. <i>Journal of Vision</i> , 2016, 16, 7. | 0.1 | 6 |
| 86 | Deos the Bairn Not Raed Ervey Lteter by Istlef, but the Wrod as a Wlohe?. <i>Neuron</i> , 2009, 62, 161-162. | 3.8 | 5 |
| 87 | 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. | 0.5 | 5 |
| 88 | 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. | 0.9 | 5 |
| 89 | The Interplay between Feature-Saliency and Feedback Information in Visual Category Learning Tasks. , 2012, 2012, 420-425. | | 4 |
| 90 | Occipital Lobe. , 2003, , 653-660. | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Synchrony upon repetition: One or multiple neural mechanisms?. Cognitive Neuroscience, 2012, 3, 243-244. | 0.6 | 3 |
| 92 | The structure of depressive symptoms and characteristics and their relation to overall severity in major depressive disorder. Psychiatry Research, 2020, 294, 113399. | 1.7 | 3 |
| 93 | Combined Neural Tuning in Human Ventral Temporal Cortex Resolves the Perceptual Ambiguity of Morphed 2D Images. Cerebral Cortex, 2020, 30, 4882-4898. | 1.6 | 2 |
| 94 | Gray Matter Thinning in Ventral Temporal Cortex from Childhood to Adulthood is Associated with Increased Myelination. Journal of Vision, 2018, 18, 542. | 0.1 | 2 |
| 95 | Human visual cortex as a window into the developing brain. Journal of Vision, 2019, 19, 17. | 0.1 | 2 |
| 96 | Representation of Objects. , 2013, , . | | 1 |
| 97 | Task modulates category selectivity along a gradient from occipitotemporal cortex to prefrontal cortex in word- and face-selective regions. Journal of Vision, 2015, 15, 1170. | 0.1 | 1 |
| 98 | Differential representation of category and task information across high level visual cortex and ventro-lateral prefrontal cortex. Journal of Vision, 2016, 16, 256. | 0.1 | 1 |
| 99 | Macroanatomical alignment improves the intersubject consistency of cytoarchitectonic regions in the human ventral stream. Journal of Vision, 2016, 16, 179. | 0.1 | 1 |
| 100 | Development differentially sculpts population receptive fields across human visual cortex. Journal of Vision, 2017, 17, 608. | 0.1 | 1 |
| 101 | Selectivity to limbs in ventral temporal cortex decreases during childhood as selectivity to faces and words increases. Journal of Vision, 2020, 20, 152. | 0.1 | 1 |
| 102 | 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 |
| 103 | Neural discriminability for face identity improves from childhood to adulthood. Journal of Vision, 2015, 15, 1190. | 0.1 | 0 |
| 104 | Learning invariant object representations: asymmetric transfer of learning across line drawings and 3D cues. Journal of Vision, 2015, 15, 1088. | 0.1 | 0 |
| 105 | Macromolecular proliferation in human high-level visual cortex constrains development of function and behavior. Journal of Vision, 2016, 16, 383. | 0.1 | 0 |
| 106 | Probabilistic Atlas of Category-Selective Regions of Ventral Temporal Cortex. Journal of Vision, 2016, 16, 253. | 0.1 | 0 |
| 107 | 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. | 0.1 | 0 |
| 108 | Development of neural sensitivity to face identity correlates with perceptual discriminability. Journal of Vision, 2017, 17, 23. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Eccentricity drives developmental organization of human high-level visual cortex. <i>Journal of Vision</i> , 2018, 18, 1149. | 0.1 | 0 |
| 110 | Prefrontal and category-selective ventro-temporal regions exhibit differential interactions between stimulus visibility and task. <i>Journal of Vision</i> , 2018, 18, 389. | 0.1 | 0 |
| 111 | A preference for mathematical tasks outweighs the selectivity for Arabic numbers in the inferior temporal gyrus. <i>Journal of Vision</i> , 2018, 18, 551. | 0.1 | 0 |
| 112 | Differential responses across body- and face-selective cortex predict visual categorization behavior. <i>Journal of Vision</i> , 2018, 18, 1091. | 0.1 | 0 |
| 113 | Ultra-high-resolution fMRI reveals differential representation of categories and domains across lateral and medial ventral temporal cortex. <i>Journal of Vision</i> , 2019, 19, 249a. | 0.1 | 0 |
| 114 | How learning to read affects the function and structure of ventral temporal cortex. <i>Journal of Vision</i> , 2019, 19, 4c. | 0.1 | 0 |
| 115 | Differential white matter connections to ventral and lateral occipito-temporal face-selective regions underlie differences in visual field coverage. <i>Journal of Vision</i> , 2019, 19, 54b. | 0.1 | 0 |
| 116 | Population receptive field measurements of stimulus-driven effects in face-selective areas. <i>Journal of Vision</i> , 2019, 19, 258c. | 0.1 | 0 |
| 117 | White matter anatomy and cortical microstructure predict reading-related responses in ventral temporal cortex. <i>Journal of Vision</i> , 2020, 20, 201. | 0.1 | 0 |