

Gabriel Kreiman

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

13,848
citations

126907

33
h-index

69250

77
g-index

108
all docs

108
docs citations

108
times ranked

19321
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurons detect cognitive boundaries to structure episodic memories in humans. Nature Neuroscience, 2022, 25, 358-368.	14.8	51
2	Beyond the Cane: Describing Urban Scenes to Blind People for Mobility Tasks. ACM Transactions on Accessible Computing, 2022, 15, 1-29.	2.4	3
3	Face neurons encode nonsemantic features. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118705119.	7.1	4
4	Do computational models of vision need shape-based representations? Evidence from an individual with intriguing visual perceptions. Cognitive Neuropsychology, 2022, 39, 75-77.	1.1	1
5	From the Highest Echelons of Visual Processing to Cognition. , 2021, , 112-132.		0
6	Beauty is in the eye of the machine. Nature Human Behaviour, 2021, 5, 675-676.	12.0	1
7	Mesoscopic physiological interactions in the human brain reveal small-world properties. Cell Reports, 2021, 36, 109585.	6.4	7
8	When Pigs Fly: Contextual Reasoning in Synthetic and Natural Scenes. , 2021, , .		3
9	Localized task-invariant emotional valence encoding revealed by intracranial recordings. Social Cognitive and Affective Neuroscience, 2021, , .	3.0	1
10	Putting Visual Object Recognition in Context. , 2020, 2020, 12982-12991.		21
11	Can Deep Learning Recognize Subtle Human Activities?., 2020, , .		6
12	Incorporating intrinsic suppression in deep neural networks captures dynamics of adaptation in neurophysiology and perception. Science Advances, 2020, 6, .	10.3	12
13	Minimal videos: Trade-off between spatial and temporal information in human and machine vision. Cognition, 2020, 201, 104263.	2.2	0
14	XDream: Finding preferred stimuli for visual neurons using generative networks and gradient-free optimization. PLoS Computational Biology, 2020, 16, e1007973.	3.2	10
15	Beyond the feedforward sweep: feedback computations in the visual cortex. Annals of the New York Academy of Sciences, 2020, 1464, 222-241.	3.8	44
16	A neural network trained for prediction mimics diverse features of biological neurons and perception. Nature Machine Intelligence, 2020, 2, 210-219.	16.0	62
17	Can Deep Learning Recognize Subtle Human Activities?. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, 2020, 2020, .	0.0	0
18	Title is missing!. , 2020, 16, e1007973.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 16, e1007973.		0
20	Title is missing!. , 2020, 16, e1007973.		0
21	Title is missing!. , 2020, 16, e1007973.		0
22	Title is missing!. , 2020, 16, e1007973.		0
23	Title is missing!. , 2020, 16, e1007973.		0
24	Neural Interactions Underlying Visuomotor Associations in the Human Brain. Cerebral Cortex, 2019, 29, 4551-4567.	2.9	3
25	What do neurons really want? The role of semantics in cortical representations. Psychology of Learning and Motivation - Advances in Research and Theory, 2019, , 195-221.	1.1	0
26	Evolving Images for Visual Neurons Using a Deep Generative Network Reveals Coding Principles and Neuronal Preferences. Cell, 2019, 177, 999-1009.e10.	28.9	153
27	It's a small dimensional world after all. Physics of Life Reviews, 2019, 29, 96-97.	2.8	1
28	Computational strategies used during hybrid visual search. Journal of Vision, 2019, 19, 132.	0.3	0
29	Adaptation in models of visual object recognition. Journal of Vision, 2019, 19, 210a.	0.3	0
30	Zero-shot neural decoding from rhesus macaque inferior temporal cortex using deep convolutional neural networks. Journal of Vision, 2019, 19, 209a.	0.3	1
31	What is changing when: Decoding visual information in movies from human intracranial recordings. NeuroImage, 2018, 180, 147-159.	4.2	16
32	Minimal memory for details in real life events. Scientific Reports, 2018, 8, 16701.	3.3	22
33	Finding any Waldo with zero-shot invariant and efficient visual search. Nature Communications, 2018, 9, 3730.	12.8	25
34	Learning scene gist with convolutional neural networks to improve object recognition. , 2018, , .		8
35	Recurrent computations for visual pattern completion. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8835-8840.	7.1	139
36	Two targets, held in memory, can guide search; four targets cannot.. Journal of Vision, 2018, 18, 288.	0.3	0

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37	Rapid learning of meaningful image interpretation. <i>Journal of Vision</i> , 2018, 18, 1362.	0.3	0
38	Recognition of Occluded Objects. <i>Cognitive Science and Technology</i> , 2017, , 41-58.	0.4	11
39	A null model for cortical representations with grandmothers galore. <i>Language, Cognition and Neuroscience</i> , 2017, 32, 274-285.	1.2	4
40	Neuronal correlates of rapid learning in the human medial temporal lobe. <i>Journal of Vision</i> , 2017, 17, 483.	0.3	0
41	Task dependent modulation before, during and after visually evoked responses in human intracranial recordings. <i>Journal of Vision</i> , 2017, 17, 983.	0.3	0
42	A machine learning approach to predict episodic memory formation. , 2016, , .		0
43	Bottom-Up and Top-Down Input Augment the Variability of Cortical Neurons. <i>Neuron</i> , 2016, 91, 540-547.	8.1	26
44	Predicting episodic memory formation for movie events. <i>Scientific Reports</i> , 2016, 6, 30175.	3.3	10
45	f-divergence cutoff index to simultaneously identify differential expression in the integrated transcriptome and proteome. <i>Nucleic Acids Research</i> , 2016, 44, e97-e97.	14.5	7
46	There's Waldo! A Normalization Model of Visual Search Predicts Single-Trial Human Fixations in an Object Search Task. <i>Cerebral Cortex</i> , 2016, 26, 3064-3082.	2.9	13
47	Cascade of neural processing orchestrates cognitive control in human frontal cortex. <i>ELife</i> , 2016, 5, .	6.0	33
48	Probing human intracranial visual responses with commercial movies. <i>Journal of Vision</i> , 2016, 16, 502.	0.3	0
49	Sensitivity to timing and order in human visual cortex. <i>Journal of Neurophysiology</i> , 2015, 113, 1656-1669.	1.8	4
50	Corticocortical feedback increases the spatial extent of normalization. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 105.	2.5	42
51	Neural Dynamics Underlying Target Detection in the Human Brain. <i>Journal of Neuroscience</i> , 2014, 34, 3042-3055.	3.6	19
52	Short temporal asynchrony disrupts visual object recognition. <i>Journal of Vision</i> , 2014, 14, 7-7.	0.3	7
53	Quantitative profiling of peptides from RNAs classified as noncoding. <i>Nature Communications</i> , 2014, 5, 5429.	12.8	55
54	Spatiotemporal Dynamics Underlying Object Completion in Human Ventral Visual Cortex. <i>Neuron</i> , 2014, 83, 736-748.	8.1	75

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55	Decrease in gamma-band activity tracks sequence learning. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 222.	2.5	7
56	Mind the quantum?. <i>Trends in Cognitive Sciences</i> , 2013, 17, 109-110.	7.8	6
57	Depression-Biased Reverse Plasticity Rule Is Required for Stable Learning at Top-Down Connections. <i>PLoS Computational Biology</i> , 2012, 8, e1002393.	3.2	12
58	Theory on the Coupled Stochastic Dynamics of Transcription and Splice-Site Recognition. <i>PLoS Computational Biology</i> , 2012, 8, e1002747.	3.2	6
59	Temporal stability of visually selective responses in intracranial field potentials recorded from human occipital and temporal lobes. <i>Journal of Neurophysiology</i> , 2012, 108, 3073-3086.	1.8	11
60	Integrated genome analysis suggests that most conserved non-coding sequences are regulatory factor binding sites. <i>Nucleic Acids Research</i> , 2012, 40, 7858-7869.	14.5	36
61	On the Minimization of Fluctuations in the Response Times of Autoregulatory Gene Networks. <i>Biophysical Journal</i> , 2011, 101, 1297-1306.	0.5	19
62	Internally Generated Preactivation of Single Neurons in Human Medial Frontal Cortex Predicts Volition. <i>Neuron</i> , 2011, 69, 548-562.	8.1	383
63	Nine Criteria for a Measure of Scientific Output. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 48.	2.1	61
64	Neuroscience: What We Cannot Model, We Do Not Understand. <i>Current Biology</i> , 2011, 21, R123-R125.	3.9	1
65	Face Recognition: Vision and Emotions beyond the Bubble. <i>Current Biology</i> , 2011, 21, R888-R890.	3.9	4
66	Decoding ensemble activity from neurophysiological recordings in the temporal cortex. , 2011, 2011, 5904-7.		0
67	Conservation of transcription factor binding events predicts gene expression across species. <i>Nucleic Acids Research</i> , 2011, 39, 7092-7102.	14.5	25
68	Visual integration in the human brain. <i>Journal of Vision</i> , 2011, 11, 887-887.	0.3	0
69	Postscript: About grandmother cells and Jennifer Aniston neurons.. <i>Psychological Review</i> , 2010, 117, 297-299.	3.8	7
70	Measuring sparseness in the brain: Comment on Bowers (2009).. <i>Psychological Review</i> , 2010, 117, 291-297.	3.8	54
71	Robust Selectivity to Two-Object Images in Human Visual Cortex. <i>Current Biology</i> , 2010, 20, 872-879.	3.9	37
72	Widespread transcription at neuronal activity-regulated enhancers. <i>Nature</i> , 2010, 465, 182-187.	27.8	2,120

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73	How cortical neurons help us see: visual recognition in the human brain. <i>Journal of Clinical Investigation</i> , 2010, 120, 3054-3063.	8.2	17
74	Differential Gene Expression in the Developing Lateral Geniculate Nucleus and Medial Geniculate Nucleus Reveals Novel Roles for Zic4 and Foxp2 in Visual and Auditory Pathway Development. <i>Journal of Neuroscience</i> , 2009, 29, 13672-13683.	3.6	48
75	From Neurons to Circuits: Linear Estimation of Local Field Potentials. <i>Journal of Neuroscience</i> , 2009, 29, 13785-13796.	3.6	62
76	Timing, Timing, Timing: Fast Decoding of Object Information from Intracranial Field Potentials in Human Visual Cortex. <i>Neuron</i> , 2009, 62, 281-290.	8.1	353
77	Toward Unmasking the Dynamics of Visual Perception. <i>Neuron</i> , 2009, 64, 446-447.	8.1	1
78	Sparse but not "Grandmother-cell" coding in the medial temporal lobe. <i>Trends in Cognitive Sciences</i> , 2008, 12, 87-91.	7.8	230
79	Differential Gene Expression between Sensory Neocortical Areas: Potential Roles for Ten_m3 and Bcl6 in Patterning Visual and Somatosensory Pathways. <i>Cerebral Cortex</i> , 2008, 18, 53-66.	2.9	62
80	Dynamic Population Coding of Category Information in Inferior Temporal and Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 1407-1419.	1.8	343
81	Biological object recognition. <i>Scholarpedia Journal</i> , 2008, 3, 2667.	0.3	12
82	A quantitative theory of immediate visual recognition. <i>Progress in Brain Research</i> , 2007, 165, 33-56.	1.4	168
83	Single unit approaches to human vision and memory. <i>Current Opinion in Neurobiology</i> , 2007, 17, 471-475.	4.2	25
84	Brain Science: From the Very Small to the Very Large. <i>Current Biology</i> , 2007, 17, R768-R770.	3.9	1
85	Gene expression changes and molecular pathways mediating activity-dependent plasticity in visual cortex. <i>Nature Neuroscience</i> , 2006, 9, 660-668.	14.8	199
86	Object Selectivity of Local Field Potentials and Spikes in the Macaque Inferior Temporal Cortex. <i>Neuron</i> , 2006, 49, 433-445.	8.1	274
87	Invariant visual representation by single neurons in the human brain. <i>Nature</i> , 2005, 435, 1102-1107.	27.8	1,580
88	Fast Readout of Object Identity from Macaque Inferior Temporal Cortex. <i>Science</i> , 2005, 310, 863-866.	12.6	720
89	Identification of sparsely distributed clusters of cis-regulatory elements in sets of co-expressed genes. <i>Nucleic Acids Research</i> , 2004, 32, 2889-2900.	14.5	45
90	Neural coding: computational and biophysical perspectives. <i>Physics of Life Reviews</i> , 2004, 1, 71-102.	2.8	30

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91	Variation in alternative splicing across human tissues. <i>Genome Biology</i> , 2004, 5, R74.	9.6	486
92	A gene atlas of the mouse and human protein-encoding transcriptomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6062-6067.	7.1	3,290
93	Consciousness and Neurosurgery. <i>Neurosurgery</i> , 2004, 55, 273-282.	1.1	50
94	Single-neuron correlates of subjective vision in the human medial temporal lobe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8378-8383.	7.1	178
95	Stimulus Encoding and Feature Extraction by Multiple Sensory Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 2374-2382.	3.6	50
96	Neural correlates of consciousness in humans. <i>Nature Reviews Neuroscience</i> , 2002, 3, 261-270.	10.2	665
97	Amygdala-enriched genes identified by microarray technology are restricted to specific amygdaloid subnuclei. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 5270-5275.	7.1	155
98	Category-specific visual responses of single neurons in the human medial temporal lobe. <i>Nature Neuroscience</i> , 2000, 3, 946-953.	14.8	450
99	Imagery neurons in the human brain. <i>Nature</i> , 2000, 408, 357-361.	27.8	315
100	Robustness and Variability of Neuronal Coding by Amplitude-Sensitive Afferents in the Weakly Electric Fish <i>Eigenmannia</i> . <i>Journal of Neurophysiology</i> , 2000, 84, 189-204.	1.8	68
101	Tetanic Stimulation Leads to Increased Accumulation of Ca ²⁺ /Calmodulin-Dependent Protein Kinase II via Dendritic Protein Synthesis in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 7823-7833.	3.6	271