

Gabriel Kreiman

List of Publications by Year in descending order

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101
papers

13,848
citations

126708

33
h-index

69108

77
g-index

108
all docs

108
docs citations

108
times ranked

19321
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.3	3,290
2	Widespread transcription at neuronal activity-regulated enhancers. <i>Nature</i> , 2010, 465, 182-187.	13.7	2,120
3	Invariant visual representation by single neurons in the human brain. <i>Nature</i> , 2005, 435, 1102-1107.	13.7	1,580
4	Fast Readout of Object Identity from Macaque Inferior Temporal Cortex. <i>Science</i> , 2005, 310, 863-866.	6.0	720
5	Neural correlates of consciousness in humans. <i>Nature Reviews Neuroscience</i> , 2002, 3, 261-270.	4.9	665
6	Variation in alternative splicing across human tissues. <i>Genome Biology</i> , 2004, 5, R74.	13.9	486
7	Category-specific visual responses of single neurons in the human medial temporal lobe. <i>Nature Neuroscience</i> , 2000, 3, 946-953.	7.1	450
8	Internally Generated Preactivation of Single Neurons in Human Medial Frontal Cortex Predicts Volition. <i>Neuron</i> , 2011, 69, 548-562.	3.8	383
9	Timing, Timing, Timing: Fast Decoding of Object Information from Intracranial Field Potentials in Human Visual Cortex. <i>Neuron</i> , 2009, 62, 281-290.	3.8	353
10	Dynamic Population Coding of Category Information in Inferior Temporal and Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2008, 100, 1407-1419.	0.9	343
11	Imagery neurons in the human brain. <i>Nature</i> , 2000, 408, 357-361.	13.7	315
12	Object Selectivity of Local Field Potentials and Spikes in the Macaque Inferior Temporal Cortex. <i>Neuron</i> , 2006, 49, 433-445.	3.8	274
13	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.	1.7	271
14	Sparse but not "Grandmother-cell" coding in the medial temporal lobe. <i>Trends in Cognitive Sciences</i> , 2008, 12, 87-91.	4.0	230
15	Gene expression changes and molecular pathways mediating activity-dependent plasticity in visual cortex. <i>Nature Neuroscience</i> , 2006, 9, 660-668.	7.1	199
16	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.	3.3	178
17	A quantitative theory of immediate visual recognition. <i>Progress in Brain Research</i> , 2007, 165, 33-56.	0.9	168
18	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.	3.3	155

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19	Evolving Images for Visual Neurons Using a Deep Generative Network Reveals Coding Principles and Neuronal Preferences. <i>Cell</i> , 2019, 177, 999-1009.e10.	13.5	153
20	Recurrent computations for visual pattern completion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8835-8840.	3.3	139
21	Spatiotemporal Dynamics Underlying Object Completion in Human Ventral Visual Cortex. <i>Neuron</i> , 2014, 83, 736-748.	3.8	75
22	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.	0.9	68
23	Differential Gene Expression between Sensory Neocortical Areas: Potential Roles for <i>Ten_m3</i> and <i>Bcl6</i> in Patterning Visual and Somatosensory Pathways. <i>Cerebral Cortex</i> , 2008, 18, 53-66.	1.6	62
24	From Neurons to Circuits: Linear Estimation of Local Field Potentials. <i>Journal of Neuroscience</i> , 2009, 29, 13785-13796.	1.7	62
25	A neural network trained for prediction mimics diverse features of biological neurons and perception. <i>Nature Machine Intelligence</i> , 2020, 2, 210-219.	8.3	62
26	Nine Criteria for a Measure of Scientific Output. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 48.	1.2	61
27	Quantitative profiling of peptides from RNAs classified as noncoding. <i>Nature Communications</i> , 2014, 5, 5429.	5.8	55
28	Measuring sparseness in the brain: Comment on Bowers (2009).. <i>Psychological Review</i> , 2010, 117, 291-297.	2.7	54
29	Neurons detect cognitive boundaries to structure episodic memories in humans. <i>Nature Neuroscience</i> , 2022, 25, 358-368.	7.1	51
30	Stimulus Encoding and Feature Extraction by Multiple Sensory Neurons. <i>Journal of Neuroscience</i> , 2002, 22, 2374-2382.	1.7	50
31	Consciousness and Neurosurgery. <i>Neurosurgery</i> , 2004, 55, 273-282.	0.6	50
32	Differential Gene Expression in the Developing Lateral Geniculate Nucleus and Medial Geniculate Nucleus Reveals Novel Roles for <i>Zic4</i> and <i>Foxp2</i> in Visual and Auditory Pathway Development. <i>Journal of Neuroscience</i> , 2009, 29, 13672-13683.	1.7	48
33	Identification of sparsely distributed clusters of cis-regulatory elements in sets of co-expressed genes. <i>Nucleic Acids Research</i> , 2004, 32, 2889-2900.	6.5	45
34	Beyond the feedforward sweep: feedback computations in the visual cortex. <i>Annals of the New York Academy of Sciences</i> , 2020, 1464, 222-241.	1.8	44
35	Corticocortical feedback increases the spatial extent of normalization. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 105.	1.2	42
36	Robust Selectivity to Two-Object Images in Human Visual Cortex. <i>Current Biology</i> , 2010, 20, 872-879.	1.8	37

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37	Integrated genome analysis suggests that most conserved non-coding sequences are regulatory factor binding sites. <i>Nucleic Acids Research</i> , 2012, 40, 7858-7869.	6.5	36
38	Cascade of neural processing orchestrates cognitive control in human frontal cortex. <i>ELife</i> , 2016, 5, .	2.8	33
39	Neural coding: computational and biophysical perspectives. <i>Physics of Life Reviews</i> , 2004, 1, 71-102.	1.5	30
40	Bottom-Up and Top-Down Input Augment the Variability of Cortical Neurons. <i>Neuron</i> , 2016, 91, 540-547.	3.8	26
41	Single unit approaches to human vision and memory. <i>Current Opinion in Neurobiology</i> , 2007, 17, 471-475.	2.0	25
42	Conservation of transcription factor binding events predicts gene expression across species. <i>Nucleic Acids Research</i> , 2011, 39, 7092-7102.	6.5	25
43	Finding any Waldo with zero-shot invariant and efficient visual search. <i>Nature Communications</i> , 2018, 9, 3730.	5.8	25
44	Minimal memory for details in real life events. <i>Scientific Reports</i> , 2018, 8, 16701.	1.6	22
45	Putting Visual Object Recognition in Context. , 2020, 2020, 12982-12991.		21
46	On the Minimization of Fluctuations in the Response Times of Autoregulatory Gene Networks. <i>Biophysical Journal</i> , 2011, 101, 1297-1306.	0.2	19
47	Neural Dynamics Underlying Target Detection in the Human Brain. <i>Journal of Neuroscience</i> , 2014, 34, 3042-3055.	1.7	19
48	How cortical neurons help us see: visual recognition in the human brain. <i>Journal of Clinical Investigation</i> , 2010, 120, 3054-3063.	3.9	17
49	What is changing when: Decoding visual information in movies from human intracranial recordings. <i>NeuroImage</i> , 2018, 180, 147-159.	2.1	16
50	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.	1.6	13
51	Depression-Biased Reverse Plasticity Rule Is Required for Stable Learning at Top-Down Connections. <i>PLoS Computational Biology</i> , 2012, 8, e1002393.	1.5	12
52	Incorporating intrinsic suppression in deep neural networks captures dynamics of adaptation in neurophysiology and perception. <i>Science Advances</i> , 2020, 6, .	4.7	12
53	Biological object recognition. <i>Scholarpedia Journal</i> , 2008, 3, 2667.	0.3	12
54	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.	0.9	11

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55	Recognition of Occluded Objects. <i>Cognitive Science and Technology</i> , 2017, , 41-58.	0.2	11
56	Predicting episodic memory formation for movie events. <i>Scientific Reports</i> , 2016, 6, 30175.	1.6	10
57	XDream: Finding preferred stimuli for visual neurons using generative networks and gradient-free optimization. <i>PLoS Computational Biology</i> , 2020, 16, e1007973.	1.5	10
58	Learning scene gist with convolutional neural networks to improve object recognition. , 2018, , .		8
59	Postscript: About grandmother cells and Jennifer Aniston neurons.. <i>Psychological Review</i> , 2010, 117, 297-299.	2.7	7
60	Short temporal asynchrony disrupts visual object recognition. <i>Journal of Vision</i> , 2014, 14, 7-7.	0.1	7
61	Decrease in gamma-band activity tracks sequence learning. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 222.	1.2	7
62	f-divergence cutoff index to simultaneously identify differential expression in the integrated transcriptome and proteome. <i>Nucleic Acids Research</i> , 2016, 44, e97-e97.	6.5	7
63	Mesoscopic physiological interactions in the human brain reveal small-world properties. <i>Cell Reports</i> , 2021, 36, 109585.	2.9	7
64	Theory on the Coupled Stochastic Dynamics of Transcription and Splice-Site Recognition. <i>PLoS Computational Biology</i> , 2012, 8, e1002747.	1.5	6
65	Mind the quantum?. <i>Trends in Cognitive Sciences</i> , 2013, 17, 109-110.	4.0	6
66	Can Deep Learning Recognize Subtle Human Activities?. , 2020, , .		6
67	Face Recognition: Vision and Emotions beyond the Bubble. <i>Current Biology</i> , 2011, 21, R888-R890.	1.8	4
68	Sensitivity to timing and order in human visual cortex. <i>Journal of Neurophysiology</i> , 2015, 113, 1656-1669.	0.9	4
69	A null model for cortical representations with grandmothers galore. <i>Language, Cognition and Neuroscience</i> , 2017, 32, 274-285.	0.7	4
70	Face neurons encode nonsemantic features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118705119.	3.3	4
71	Neural Interactions Underlying Visuomotor Associations in the Human Brain. <i>Cerebral Cortex</i> , 2019, 29, 4551-4567.	1.6	3
72	Beyond the Cane: Describing Urban Scenes to Blind People for Mobility Tasks. <i>ACM Transactions on Accessible Computing</i> , 2022, 15, 1-29.	1.9	3

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73	When Pigs Fly: Contextual Reasoning in Synthetic and Natural Scenes. , 2021, , .		3
74	Brain Science: From the Very Small to the Very Large. Current Biology, 2007, 17, R768-R770.	1.8	1
75	Toward Unmasking the Dynamics of Visual Perception. Neuron, 2009, 64, 446-447.	3.8	1
76	Neuroscience: What We Cannot Model, We Do Not Understand. Current Biology, 2011, 21, R123-R125.	1.8	1
77	It's a small dimensional world after all. Physics of Life Reviews, 2019, 29, 96-97.	1.5	1
78	Beauty is in the eye of the machine. Nature Human Behaviour, 2021, 5, 675-676.	6.2	1
79	Zero-shot neural decoding from rhesus macaque inferior temporal cortex using deep convolutional neural networks. Journal of Vision, 2019, 19, 209a.	0.1	1
80	Localized task-invariant emotional valence encoding revealed by intracranial recordings. Social Cognitive and Affective Neuroscience, 2021, , .	1.5	1
81	Do computational models of vision need shape-based representations? Evidence from an individual with intriguing visual perceptions. Cognitive Neuropsychology, 2022, 39, 75-77.	0.4	1
82	Decoding ensemble activity from neurophysiological recordings in the temporal cortex. , 2011, 2011, 5904-7.		0
83	A machine learning approach to predict episodic memory formation. , 2016, , .		0
84	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.	0.5	0
85	Minimal videos: Trade-off between spatial and temporal information in human and machine vision. Cognition, 2020, 201, 104263.	1.1	0
86	From the Highest Echelons of Visual Processing to Cognition. , 2021, , 112-132.		0
87	Visual integration in the human brain. Journal of Vision, 2011, 11, 887-887.	0.1	0
88	Probing human intracranial visual responses with commercial movies. Journal of Vision, 2016, 16, 502.	0.1	0
89	Neuronal correlates of rapid learning in the human medial temporal lobe. Journal of Vision, 2017, 17, 483.	0.1	0
90	Task dependent modulation before, during and after visually evoked responses in human intracranial recordings. Journal of Vision, 2017, 17, 983.	0.1	0

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91	Two targets, held in memory, can guide search; four targets cannot.. Journal of Vision, 2018, 18, 288.	0.1	0
92	Rapid learning of meaningful image interpretation. Journal of Vision, 2018, 18, 1362.	0.1	0
93	Computational strategies used during hybrid visual search. Journal of Vision, 2019, 19, 132.	0.1	0
94	Adaptation in models of visual object recognition. Journal of Vision, 2019, 19, 210a.	0.1	0
95	Can Deep Learning Recognize Subtle Human Activities?. IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops, 2020, 2020, .	0.0	0
96	Title is missing!. , 2020, 16, e1007973.		0
97	Title is missing!. , 2020, 16, e1007973.		0
98	Title is missing!. , 2020, 16, e1007973.		0
99	Title is missing!. , 2020, 16, e1007973.		0
100	Title is missing!. , 2020, 16, e1007973.		0
101	Title is missing!. , 2020, 16, e1007973.		0