

# Alexander Kraskov

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

7,107  
citations

159585

30  
h-index

223800

46  
g-index

53  
all docs

53  
docs citations

53  
times ranked

7553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating mutual information. <i>Physical Review E</i> , 2004, 69, 066138.	2.1	2,315
2	Performance of different synchronization measures in real data: A case study on electroencephalographic signals. <i>Physical Review E</i> , 2002, 65, 041903.	2.1	626
3	On the predictability of epileptic seizures. <i>Clinical Neurophysiology</i> , 2005, 116, 569-587.	1.5	442
4	Corticospinal Neurons in Macaque Ventral Premotor Cortex with Mirror Properties: A Potential Mechanism for Action Suppression?. <i>Neuron</i> , 2009, 64, 922-930.	8.1	285
5	Object Selectivity of Local Field Potentials and Spikes in the Macaque Inferior Temporal Cortex. <i>Neuron</i> , 2006, 49, 433-445.	8.1	274
6	M1 Corticospinal Mirror Neurons and Their Role in Movement Suppression during Action Observation. <i>Current Biology</i> , 2013, 23, 236-243.	3.9	215
7	Hierarchical clustering using mutual information. <i>Europhysics Letters</i> , 2005, 70, 278-284.	2.0	194
8	Latency and Selectivity of Single Neurons Indicate Hierarchical Processing in the Human Medial Temporal Lobe. <i>Journal of Neuroscience</i> , 2008, 28, 8865-8872.	3.6	188
9	Sparse Representation in the Human Medial Temporal Lobe. <i>Journal of Neuroscience</i> , 2006, 26, 10232-10234.	3.6	183
10	Interactions between areas of the cortical grasping network. <i>Current Opinion in Neurobiology</i> , 2011, 21, 565-570.	4.2	179
11	Measuring synchronization in coupled model systems: A comparison of different approaches. <i>Physica D: Nonlinear Phenomena</i> , 2007, 225, 29-42.	2.8	171
12	Explicit Encoding of Multimodal Percepts by Single Neurons in the Human Brain. <i>Current Biology</i> , 2009, 19, 1308-1313.	3.9	168
13	Large Identified Pyramidal Cells in Macaque Motor and Premotor Cortex Exhibit "Thin Spikes": Implications for Cell Type Classification. <i>Journal of Neuroscience</i> , 2011, 31, 14235-14242.	3.6	155
14	Least-dependent-component analysis based on mutual information. <i>Physical Review E</i> , 2004, 70, 066123.	2.1	144
15	On-line, voluntary control of human temporal lobe neurons. <i>Nature</i> , 2010, 467, 1104-1108.	27.8	140
16	A category-specific response to animals in the right human amygdala. <i>Nature Neuroscience</i> , 2011, 14, 1247-1249.	14.8	129
17	Testing the null hypothesis of the nonexistence of a pre seizure state. <i>Physical Review E</i> , 2003, 67, 010901.	2.1	122
18	Bivariate surrogate techniques: Necessity, strengths, and caveats. <i>Physical Review E</i> , 2003, 68, 066202.	2.1	107

#	ARTICLE	IF	CITATIONS
19	Selectivity for Grasp in Local Field Potential and Single Neuron Activity Recorded Simultaneously from M1 and F5 in the Awake Macaque Monkey. <i>Journal of Neuroscience</i> , 2008, 28, 10961-10971.	3.6	100
20	Axon diameters and conduction velocities in the macaque pyramidal tract. <i>Journal of Neurophysiology</i> , 2014, 112, 1229-1240.	1.8	93
21	Influence of spiking activity on cortical local field potentials. <i>Journal of Physiology</i> , 2013, 591, 5291-5303.	2.9	80
22	Independent components in spectroscopic analysis of complex mixtures. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2010, 103, 108-115.	3.5	70
23	Measure profile surrogates: A method to validate the performance of epileptic seizure prediction algorithms. <i>Physical Review E</i> , 2004, 69, 061915.	2.1	66
24	Local Field Potentials and Spikes in the Human Medial Temporal Lobe are Selective to Image Category. <i>Journal of Cognitive Neuroscience</i> , 2007, 19, 479-492.	2.3	66
25	Corticospinal mirror neurons. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130174.	4.0	60
26	Monte Carlo Algorithm for Least Dependent Non-Negative Mixture Decomposition. <i>Analytical Chemistry</i> , 2006, 78, 1620-1627.	6.5	52
27	Responses of Human Medial Temporal Lobe Neurons Are Modulated by Stimulus Repetition. <i>Journal of Neurophysiology</i> , 2010, 103, 97-107.	1.8	47
28	Ventral Premotor-Motor Cortex Interactions in the Macaque Monkey during Grasp: Response of Single Neurons to Intracortical Microstimulation. <i>Journal of Neuroscience</i> , 2011, 31, 8812-8821.	3.6	44
29	The Activity of Primary Motor Cortex Corticospinal Neurons during Tool Use by Macaque Monkeys. <i>Journal of Neuroscience</i> , 2012, 32, 17351-17364.	3.6	43
30	Expression of Kv3.1b potassium channel is widespread in macaque motor cortex pyramidal cells: A histological comparison between rat and macaque. <i>Journal of Comparative Neurology</i> , 2017, 525, 2164-2174.	1.6	40
31	Single-Cell Responses to Face Adaptation in the Human Medial Temporal Lobe. <i>Neuron</i> , 2014, 84, 363-369.	8.1	37
32	Scene-selective coding by single neurons in the human parahippocampal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1153-1158.	7.1	37
33	Modulation of the Intracortical LFP during Action Execution and Observation. <i>Journal of Neuroscience</i> , 2015, 35, 8451-8461.	3.6	27
34	MIC: Mutual Information Based Hierarchical Clustering. , 2009, , 101-123.		27
35	The Corticospinal Discrepancy: Where are all the Slow Pyramidal Tract Neurons?. <i>Cerebral Cortex</i> , 2019, 29, 3977-3981.	2.9	24
36	Pattern of paresis in ALS is consistent with the physiology of the corticomotoneuronal projections to different muscle groups. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2020, 91, 991-998.	1.9	24

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37	Do monkey F5 mirror neurons show changes in firing rate during repeated observation of natural actions?. <i>Journal of Neurophysiology</i> , 2014, 111, 1214-1226.	1.8	23
38	Classification of Cortical Neurons by Spike Shape and the Identification of Pyramidal Neurons. <i>Cerebral Cortex</i> , 2021, 31, 5131-5138.	2.9	19
39	Movement initiation and grasp representation in premotor and primary motor cortex mirror neurons. <i>ELife</i> , 2020, 9, .	6.0	17
40	Reply to "Comment on "Performance of different synchronization measures in real data: A case study on electroencephalographic signals" Physical Review E, 2003, 67, .	2.1	12
41	Tractography-based parcellation does not provide strong evidence of anatomical organisation within the thalamus. <i>NeuroImage</i> , 2019, 199, 418-426.	4.2	9
42	Starting and stopping movement by the primate brain. <i>Brain and Neuroscience Advances</i> , 2019, 3, 239821281983714.	3.4	7
43	Reply to "Comment on "Performance of different synchronization measures in real data: A case study on electroencephalographic signals" Physical Review E, 2005, 72, .	2.1	5
44	Comment on "Linguistic Analysis of the Human Heartbeat Using Frequency and Rank Order Statistics" Physical Review Letters, 2004, 92, 109801; author reply 109802.	7.8	4
45	Reliability of ICA Estimates with Mutual Information. <i>Lecture Notes in Computer Science</i> , 2004, , 209-216.	1.3	4
46	The role of inhibition in action observation treatment. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 778-778.	2.1	1