Alexander Kraskov

List of Publications by Year in Descending Order

46 papers	**5,347** citations
29 h-index	**53** g-index
53 ext. papers	**6,297** ext. citations
6.7 avg, IF	**5.51** L-index

#	Paper	IF	Citations
46	Classification of Cortical Neurons by Spike Shape and the Identification of Pyramidal Neurons. *Cerebral Cortex*, **2021**, 31, 5131-5138	5.1	4
45	Movement initiation and grasp representation in premotor and primary motor cortex mirror neurons. *ELife*, **2020**, 9,	8.9	11
44	Pattern of paresis in ALS is consistent with the physiology of the corticomotoneuronal projections to different muscle groups. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**, 91, 991-998	5.5	11
43	Tractography-based parcellation does not provide strong evidence of anatomical organisation within the thalamus. *NeuroImage*, **2019**, 199, 418-426	7.9	5
42	Starting and stopping movement by the primate brain. *Brain and Neuroscience Advances*, **2019**, 3, 2398212819837149		3
41	The Corticospinal Discrepancy: Where are all the Slow Pyramidal Tract Neurons?. *Cerebral Cortex*, **2019**, 29, 3977-3981	5.1	13
40	Scene-selective coding by single neurons in the human parahippocampal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1153-1158	11.5	22
39	Expression of Kv3.1b potassium channel is widespread in macaque motor cortex pyramidal cells: A histological comparison between rat and macaque. *Journal of Comparative Neurology*, **2017**, 525, 2164-2174	3.4	27
38	Modulation of the Intracortical LFP during Action Execution and Observation. *Journal of Neuroscience*, **2015**, 35, 8451-61	6.6	19
37	Do monkey F5 mirror neurons show changes in firing rate during repeated observation of natural actions?. *Journal of Neurophysiology*, **2014**, 111, 1214-26	3.2	19
36	Axon diameters and conduction velocities in the macaque pyramidal tract. *Journal of Neurophysiology*, **2014**, 112, 1229-40	3.2	63
35	Single-cell responses to face adaptation in the human medial temporal lobe. *Neuron*, **2014**, 84, 363-9	13.9	28
34	Corticospinal mirror neurons. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130174	5.8	45
33	M1 corticospinal mirror neurons and their role in movement suppression during action observation. *Current Biology*, **2013**, 23, 236-43	6.3	180
32	Influence of spiking activity on cortical local field potentials. *Journal of Physiology*, **2013**, 591, 5291-303	3.9	61
31	The activity of primary motor cortex corticospinal neurons during tool use by macaque monkeys. *Journal of Neuroscience*, **2012**, 32, 17351-64	6.6	35
30	The role of inhibition in action observation treatment. *Developmental Medicine and Child Neurology*, **2012**, 54, 778	3.3	1

29	Interactions between areas of the cortical grasping network. *Current Opinion in Neurobiology*, **2011**, 21, 565-70	7.6	142
28	A category-specific response to animals in the right human amygdala. *Nature Neuroscience*, **2011**, 14, 1247-9	25.5	97
27	Ventral premotor-motor cortex interactions in the macaque monkey during grasp: response of single neurons to intracortical microstimulation. *Journal of Neuroscience*, **2011**, 31, 8812-21	6.6	33
26	Large identified pyramidal cells in macaque motor and premotor cortex exhibit "thin spikes": implications for cell type classification. *Journal of Neuroscience*, **2011**, 31, 14235-42	6.6	127
25	On-line, voluntary control of human temporal lobe neurons. *Nature*, **2010**, 467, 1104-8	50.4	114
24	Responses of human medial temporal lobe neurons are modulated by stimulus repetition. *Journal of Neurophysiology*, **2010**, 103, 97-107	3.2	43
23	Independent components in spectroscopic analysis of complex mixtures. *Chemometrics and Intelligent Laboratory Systems*, **2010**, 103, 108-115	3.8	64
22	Explicit encoding of multimodal percepts by single neurons in the human brain. *Current Biology*, **2009**, 19, 1308-13	6.3	114
21	Corticospinal neurons in macaque ventral premotor cortex with mirror properties: a potential mechanism for action suppression?. *Neuron*, **2009**, 64, 922-30	13.9	250
20	MIC: Mutual Information Based Hierarchical Clustering **2009**, 101-123		18
19	Latency and selectivity of single neurons indicate hierarchical processing in the human medial temporal lobe. *Journal of Neuroscience*, **2008**, 28, 8865-72	6.6	153
18	Selectivity for grasp in local field potential and single neuron activity recorded simultaneously from M1 and F5 in the awake macaque monkey. *Journal of Neuroscience*, **2008**, 28, 10961-71	6.6	90
17	Measuring synchronization in coupled model systems: A comparison of different approaches. *Physica D: Nonlinear Phenomena*, **2007**, 225, 29-42	3.3	141
16	Local field potentials and spikes in the human medial temporal lobe are selective to image category. *Journal of Cognitive Neuroscience*, **2007**, 19, 479-92	3.1	58
15	Sparse representation in the human medial temporal lobe. *Journal of Neuroscience*, **2006**, 26, 10232-4	6.6	152
14	Monte Carlo algorithm for least dependent non-negative mixture decomposition. *Analytical Chemistry*, **2006**, 78, 1620-7	7.8	44
13	Object selectivity of local field potentials and spikes in the macaque inferior temporal cortex. *Neuron*, **2006**, 49, 433-45	13.9	227
12	On the predictability of epileptic seizures. *Clinical Neurophysiology*, **2005**, 116, 569-87	4.3	351

11   Hierarchical clustering using mutual information. *Europhysics Letters*, **2005**, 70, 278-284   1.6   153

10   Reply to Comment on Performance of different synchronization measures in real data: A case study on electroencephalographic signals *Physical Review E*, **2005**, 72,   2.4   4

9   Comment on "Linguistic analysis of the human heartbeat using frequency and rank order statistics". *Physical Review Letters*, **2004**, 92, 109801; author reply 109802   7.4   4

8   Measure profile surrogates: a method to validate the performance of epileptic seizure prediction algorithms. *Physical Review E*, **2004**, 69, 061915   2.4   48

7   Estimating mutual information. *Physical Review E*, **2004**, 69, 066138   2.4   1548

6   Least-dependent-component analysis based on mutual information. *Physical Review E*, **2004**, 70, 066123   2.4   111

5   Reliability of ICA Estimates with Mutual Information. *Lecture Notes in Computer Science*, **2004**, 209-216   0.9   4

4   Testing the null hypothesis of the nonexistence of a preseizure state. *Physical Review E*, **2003**, 67, 010901   1.4   89

3   Bivariate surrogate techniques: necessity, strengths, and caveats. *Physical Review E*, **2003**, 68, 066202   2.4   87

2   Reply to Comment on Performance of different synchronization measures in real data: A case study on electroencephalographic signals *Physical Review E*, **2003**, 67,   2.4   6

1   Performance of different synchronization measures in real data: a case study on electroencephalographic signals. *Physical Review E*, **2002**, 65, 041903   2.4   515