

# Alexander Kraskov

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Estimating mutual information. <i>Physical Review E</i> , <b>2004</b> , 69, 066138  | 2.4  | 1548      |
| 45 | Performance of different synchronization measures in real data: a case study on electroencephalographic signals. <i>Physical Review E</i> , <b>2002</b> , 65, 041903                                      | 2.4  | 515       |
| 44 | On the predictability of epileptic seizures. <i>Clinical Neurophysiology</i> , <b>2005</b> , 116, 569-87  | 4.3  | 351       |
| 43 | Corticospinal neurons in macaque ventral premotor cortex with mirror properties: a potential mechanism for action suppression?. <i>Neuron</i> , <b>2009</b> , 64, 922-30                                  | 13.9 | 250       |
| 42 | Object selectivity of local field potentials and spikes in the macaque inferior temporal cortex. <i>Neuron</i> , <b>2006</b> , 49, 433-45   | 13.9 | 227       |
| 41 | M1 corticospinal mirror neurons and their role in movement suppression during action observation. <i>Current Biology</i> , <b>2013</b> , 23, 236-43   | 6.3  | 180       |
| 40 | Latency and selectivity of single neurons indicate hierarchical processing in the human medial temporal lobe. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 8865-72                                  | 6.6  | 153       |
| 39 | Hierarchical clustering using mutual information. <i>Europhysics Letters</i> , <b>2005</b> , 70, 278-284  | 1.6  | 153       |
| 38 | Sparse representation in the human medial temporal lobe. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 10232-4   | 6.6  | 152       |
| 37 | Interactions between areas of the cortical grasping network. <i>Current Opinion in Neurobiology</i> , <b>2011</b> , 21, 565-70  | 7.6  | 142       |
| 36 | Measuring synchronization in coupled model systems: A comparison of different approaches. <i>Physica D: Nonlinear Phenomena</i> , <b>2007</b> , 225, 29-42  | 3.3  | 141       |
| 35 | Large identified pyramidal cells in macaque motor and premotor cortex exhibit "thin spikes": implications for cell type classification. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 14235-42       | 6.6  | 127       |
| 34 | On-line, voluntary control of human temporal lobe neurons. <i>Nature</i> , <b>2010</b> , 467, 1104-8  | 50.4 | 114       |
| 33 | Explicit encoding of multimodal percepts by single neurons in the human brain. <i>Current Biology</i> , <b>2009</b> , 19, 1308-13   | 6.3  | 114       |
| 32 | Least-dependent-component analysis based on mutual information. <i>Physical Review E</i> , <b>2004</b> , 70, 066123   | 2.4  | 111       |
| 31 | A category-specific response to animals in the right human amygdala. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1247-9  | 25.5 | 97        |
| 30 | 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> , <b>2008</b> , 28, 10961-71 | 6.6  | 90        |

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|----|---|------|----|
| 29 | Testing the null hypothesis of the nonexistence of a preseizure state. <i>Physical Review E</i> , <b>2003</b> , 67, 010901.4  | 1.4  | 89 |
| 28 | Bivariate surrogate techniques: necessity, strengths, and caveats. <i>Physical Review E</i> , <b>2003</b> , 68, 066202  | 2.4  | 87 |
| 27 | Independent components in spectroscopic analysis of complex mixtures. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 103, 108-115   | 3.8  | 64 |
| 26 | Axon diameters and conduction velocities in the macaque pyramidal tract. <i>Journal of Neurophysiology</i> , <b>2014</b> , 112, 1229-40   | 3.2  | 63 |
| 25 | Influence of spiking activity on cortical local field potentials. <i>Journal of Physiology</i> , <b>2013</b> , 591, 5291-303  | 3.9  | 61 |
| 24 | Local field potentials and spikes in the human medial temporal lobe are selective to image category. <i>Journal of Cognitive Neuroscience</i> , <b>2007</b> , 19, 479-92  | 3.1  | 58 |
| 23 | Measure profile surrogates: a method to validate the performance of epileptic seizure prediction algorithms. <i>Physical Review E</i> , <b>2004</b> , 69, 061915  | 2.4  | 48 |
| 22 | Corticospinal mirror neurons. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2014</b> , 369, 20130174   | 5.8  | 45 |
| 21 | Monte Carlo algorithm for least dependent non-negative mixture decomposition. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1620-7  | 7.8  | 44 |
| 20 | Responses of human medial temporal lobe neurons are modulated by stimulus repetition. <i>Journal of Neurophysiology</i> , <b>2010</b> , 103, 97-107   | 3.2  | 43 |
| 19 | The activity of primary motor cortex corticospinal neurons during tool use by macaque monkeys. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 17351-64  | 6.6  | 35 |
| 18 | Ventral premotor-motor cortex interactions in the macaque monkey during grasp: response of single neurons to intracortical microstimulation. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 8812-21                 | 6.6  | 33 |
| 17 | Single-cell responses to face adaptation in the human medial temporal lobe. <i>Neuron</i> , <b>2014</b> , 84, 363-9   | 13.9 | 28 |
| 16 | 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> , <b>2017</b> , 525, 2164-2174 | 2.4  | 27 |
| 15 | 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> , <b>2017</b> , 114, 1153-1158                     | 11.5 | 22 |
| 14 | Modulation of the Intracortical LFP during Action Execution and Observation. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 8451-61   | 6.6  | 19 |
| 13 | Do monkey F5 mirror neurons show changes in firing rate during repeated observation of natural actions?. <i>Journal of Neurophysiology</i> , <b>2014</b> , 111, 1214-26   | 3.2  | 19 |
| 12 | MIC: Mutual Information Based Hierarchical Clustering <b>2009</b> , 101-123   |      | 18 |

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|----|---|------|------|
| 11 | The Corticospinal Discrepancy: Where are all the Slow Pyramidal Tract Neurons?. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 3977-3981  | 5.1  | 13   |
| 10 | Movement initiation and grasp representation in premotor and primary motor cortex mirror neurons. <i>ELife</i> , <b>2020</b> , 9,   | 8.9  | 11   |
| 9  | 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> , <b>2020</b> , 91, 991-998 | 5.5  | 11   |
| 8  | Reply to Comment on Performance of different synchronization measures in real data: A case study on electroencephalographic signals <i>Physical Review E</i> , <b>2003</b> , 67,                                    | 2.4  | 6    |
| 7  | Tractography-based parcellation does not provide strong evidence of anatomical organisation within the thalamus. <i>NeuroImage</i> , <b>2019</b> , 199, 418-426   | 7.9  | 5    |
| 6  | Comment on "Linguistic analysis of the human heartbeat using frequency and rank order statistics". <i>Physical Review Letters</i> , <b>2004</b> , 92, 109801; author reply 109802                                   | 7.4  | 4    |
| 5  | Reliability of ICA Estimates with Mutual Information. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 209-216  | 0.9  | 4    |
| 4  | Reply to Comment on Performance of different synchronization measures in real data: A case study on electroencephalographic signals <i>Physical Review E</i> , <b>2005</b> , 72,                                    | 2.4  | 4    |
| 3  | Classification of Cortical Neurons by Spike Shape and the Identification of Pyramidal Neurons. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 5131-5138   | 5.1  | 4    |
| 2  | Starting and stopping movement by the primate brain. <i>Brain and Neuroscience Advances</i> , <b>2019</b> , 3, 2398212819837149   | 12.8 | 14.9 |
| 1  | The role of inhibition in action observation treatment. <i>Developmental Medicine and Child Neurology</i> , <b>2012</b> , 54, 778   | 3.3  | 1    |