# HansjÃ¶rg Scherberger

List of Publications by Year
in descending order



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|---|---|---|---|
| 49 papers | 3,059 citations | 279798 23 h-index | 276875 41 g-index |
| 57 all docs | 57 docs citations | 57 times ranked | 2391 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Cognitive Control Signals for Neural Prosthetics. Science, 2004, 305, 258-262. | 12.6 | 642 |
| 2 | Cortical Local Field Potential Encodes Movement Intentions in the Posterior Parietal Cortex. Neuron, 2005, 46, 347-354. | 8.1 | 394 |
| 3 | Context-Specific Grasp Movement Representation in the Macaque Anterior Intraparietal Area. Journal of Neuroscience, 2009, 29, 6436-6448. | 3.6 | 264 |
| 4 | Decoding a Wide Range of Hand Configurations from Macaque Motor, Premotor, and Parietal Cortices. Journal of Neuroscience, 2015, 35, 1068-1081. | 3.6 | 147 |
| 5 | Motoneurons of twitch and nontwitch extraocular muscle fibers in the abducens, trochlear, and oculomotor nuclei of monkeys. Journal of Comparative Neurology, 2001, 438, 318-335. | 1.6 | 132 |
| 6 | Neural Population Dynamics during Reaching Are Better Explained by a Dynamical System than Representational Tuning. PLoS Computational Biology, 2016, 12, e1005175. | 3.2 | 128 |
| 7 | Reach and Gaze Representations in Macaque Parietal and Premotor Grasp Areas. Journal of Neuroscience, 2013, 33, 7038-7049. | 3.6 | 125 |
| 8 | Target Selection Signals for Arm Reaching in the Posterior Parietal Cortex. Journal of Neuroscience, 2007, 27, 2001-2012. | 3.6 | 122 |
| 9 | Context-Specific Grasp Movement Representation in Macaque Ventral Premotor Cortex. Journal of Neuroscience, 2010, 30, 15175-15184. | 3.6 | 105 |
| 10 | Object vision to hand action in macaque parietal, premotor, and motor cortices. ELife, 2016, 5, . | 6.0 | 85 |
| 11 | A mechanism for inter-areal coherence through communication based on connectivity and oscillatory power. Neuron, 2021, 109, 4050-4067.e12. | 8.1 | 80 |
| 12 | An Open Resource for Non-human Primate Optogenetics. Neuron, 2020, 108, 1075-1090.e6. | 8.1 | 79 |
| 13 | Grasp Movement Decoding from Premotor and Parietal Cortex. Journal of Neuroscience, 2011, 31, 14386-14398. | 3.6 | 74 |
| 14 | Visual Guidance in Control of Grasping. Annual Review of Neuroscience, 2015, 38, 69-86. | 10.7 | 61 |
| 15 | Predicting Reaction Time from the Neural State Space of the Premotor and Parietal Grasping Network. Journal of Neuroscience, 2015, 35, 11415-11432. | 3.6 | 60 |
| 16 | Uniting functional network topology and oscillations in the fronto-parietal single unit network of behaving primates. ELife, 2016, 5, . | 6.0 | 53 |
| 17 | Target Selection for Reaching and Saccades Share a Similar Behavioral Reference Frame in the Macaque. Journal of Neurophysiology, 2003, 89, 1456-1466. | 1.8 | 50 |
| 18 | A goal-driven modular neural network predicts parietofrontal neural dynamics during grasping. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32124-32135. | 7.1 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetic resonance image-guided implantation of chronic recording electrodes in the macaque intraparietal sulcus. Journal of Neuroscience Methods, 2003, 130, 1-8. | 2.5 | 43 |
| 20 | Neural control of motor prostheses. Current Opinion in Neurobiology, 2009, 19, 629-633. | 4.2 | 39 |
| 21 | Population coding of grasp and laterality-related information in the macaque fronto-parietal network. Scientific Reports, 2018, 8, 1710. | 3.3 | 31 |
| 22 | Ocular Counterroll Modulates the Preferred Direction of Saccade-Related Pontine Burst Neurons in the Monkey. Journal of Neurophysiology, 2001, 86, 935-949. | 1.8 | 29 |
| 23 | Musculoskeletal Representation of a Large Repertoire of Hand Grasping Actions in Primates. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 210-220. | 4.9 | 27 |
| 24 | Neural Dynamics of Variable Grasp-Movement Preparation in the Macaque Frontoparietal Network. Journal of Neuroscience, 2018, 38, 5759-5773. | 3.6 | 26 |
| 25 | Representation of continuous hand and arm movements in macaque areas M1, F5, and AIP: a comparative decoding study. Journal of Neural Engineering, 2015, 12, 056016. | 3.5 | 25 |
| 26 | Reach and grasp deficits following damage to the dorsal pulvinar. Cortex, 2018, 99, 135-149. | 2.4 | 22 |
| 27 | The collicular code of saccade direction depends on the roll orientation of the head relative to gravity. Experimental Brain Research, 1998, 120, 283-290. | 1.5 | 20 |
| 28 | 3D reconstruction toolbox for behavior tracked with multiple cameras. Journal of Open Source Software, 2020, 5, 1849. | 4.6 | 19 |
| 29 | Neural coding of intended and executed grasp force in macaque areas AIP, F5, and M1. Scientific Reports, 2018, 8, 17985. | 3.3 | 16 |
| 30 | Recording advances for neural prosthetics. , 2004, 2004, 5352-5. | | 15 |
| 31 | A new method of accurate hand- and arm-tracking for small primates. Journal of Neural Engineering, 2012, 9, 026025. | 3.5 | 15 |
| 32 | Effect of light sleep on three-dimensional eye position in static roll and pitch. Vision Research, 2001, 41, 495-505. | 1.4 | 9 |
| 33 | Spatial Representations in Local Field Potential Activity of Primate Anterior Intraparietal Cortex (AIP). PLoS ONE, 2015, 10, e0142679. | 2.5 | 8 |
| 34 | Remotely releasable collar mechanism for medium-sized mammals: an affordable technology to avoid multiple captures. Wildlife Biology, 2019, 2019, . | 1.4 | 7 |
| 35 | Histological assessment of optogenetic tools to study fronto-visual and fronto-parietal cortical networks in the rhesus macaque. Scientific Reports, 2020, 10, 11051. | 3.3 | 6 |
| 36 | NFDI-Neuro: building a community for neuroscience research data management in Germany. Neuroforum, 2021, . | 0.3 | 6 |

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|---|---|---|---|
| 37 | In search of more robust decoding algorithms for neural prostheses, a data driven approach. , 2010, 2010, 4172-5. | | 3 |
| 38 | Reproducibility and efficiency in handling complex neurophysiological data. Neuroforum, 2021, . | 0.3 | 3 |
| 39 | hebbRNN: A Reward-Modulated Hebbian Learning Rule for Recurrent Neural Networks. Journal of Open Source Software, 2016, 1, 60. | 4.6 | 3 |
| 40 | Cortical Plasticity: A View from Nonhuman Primates. Neurodegenerative Diseases, 2007, 4, 34-42. | 1.4 | 2 |
| 41 | Neural Prostheses for Reaching. , 2009, , 213-220. | | 2 |
| 42 | Stirred, Not Shaken: Motor Control with Partially Mixed Selectivity. Neuron, 2017, 95, 479-481. | 8.1 | 2 |
| 43 | Shared functional connectivity between the dorso-medial and dorso-ventral streams in macaques. Scientific Reports, 2020, 10, 18610. | 3.3 | 2 |
| 44 | A Turntable Setup for Testing Visual and Tactile Grasping Movements in Non-human Primates. Frontiers in Behavioral Neuroscience, 2021, 15, 648483. | 2.0 | 1 |
| 45 | BCIs That Use Signals Recorded in Parietal or Premotor Cortex. , 2012, , 290-299. | | 0 |
| 46 | Neural Prostheses for Reaching and Grasping. , 2018, , . | | 0 |
| 47 | Visually and Tactually Guided Grasps Lead to Different Neuronal Activity in Non-human Primates. Frontiers in Neuroscience, 2021, 15, 679910. | 2.8 | 0 |
| 48 | PriMa: A low-cost, modular, open hardware, and 3D-printed fMRI manipulandum. NeuroImage, 2021, 238, 118218. | 4.2 | 0 |
| 49 | Distributed yet compartmentalized neural dynamics of hand actions. Neuron, 2022, 110, 10-11. | 8.1 | 0 |