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	Distributed yet compartmentalized neural dynamics of hand actions. Neuron, 2022, 110, 10-11.	8.1	0
2	Reproducibility and efficiency in handling complex neurophysiological data. Neuroforum, 2021, .	0.3	3
3	A Turntable Setup for Testing Visual and Tactile Grasping Movements in Non-human Primates. Frontiers in Behavioral Neuroscience, 2021, 15, 648483.	2.0	1
4	Visually and Tactually Guided Grasps Lead to Different Neuronal Activity in Non-human Primates. Frontiers in Neuroscience, 2021, 15, 679910.	2.8	0
5	PriMa: A low-cost, modular, open hardware, and 3D-printed fMRI manipulandum. NeuroImage, 2021, 238, 118218.	4.2	0
6	NFDI-Neuro: building a community for neuroscience research data management in Germany. Neuroforum, 2021, .	0.3	6
7	A mechanism for inter-areal coherence through communication based on connectivity and oscillatory power. Neuron, 2021, 109, 4050-4067.e12.	8.1	80
8	An Open Resource for Non-human Primate Optogenetics. Neuron, 2020, 108, 1075-1090.e6.	8.1	79
9	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
10	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
11	Shared functional connectivity between the dorso-medial and dorso-ventral streams in macaques. Scientific Reports, 2020, 10, 18610.	3.3	2
12	3D reconstruction toolbox for behavior tracked with multiple cameras. Journal of Open Source Software, 2020, 5, 1849.	4.6	19
13	Remotely releasable collar mechanism for medium-sized mammals: an affordable technology to avoid multiple captures. Wildlife Biology, 2019, 2019, .	1.4	7
14	Population coding of grasp and laterality-related information in the macaque fronto-parietal network. Scientific Reports, 2018, 8, 1710.	3.3	31
15	Reach and grasp deficits following damage to the dorsal pulvinar. Cortex, 2018, 99, 135-149.	2.4	22
16	Neural Prostheses for Reaching and Grasping. , 2018, , .		0
17	Neural coding of intended and executed grasp force in macaque areas AIP, F5, and M1. Scientific Reports, 2018, 8, 17985.	3.3	16
18	Neural Dynamics of Variable Grasp-Movement Preparation in the Macaque Frontoparietal Network. Journal of Neuroscience, 2018, 38, 5759-5773.	3.6	26

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19	Stirred, Not Shaken: Motor Control with Partially Mixed Selectivity. Neuron, 2017, 95, 479-481.	8.1	2
20	Object vision to hand action in macaque parietal, premotor, and motor cortices. ELife, 2016, 5, .	6.0	85
21	Uniting functional network topology and oscillations in the fronto-parietal single unit network of behaving primates. ELife, 2016, 5, .	6.0	53
22	Neural Population Dynamics during Reaching Are Better Explained by a Dynamical System than Representational Tuning. PLoS Computational Biology, 2016, 12, e1005175.	3.2	128
23	hebbRNN: A Reward-Modulated Hebbian Learning Rule for Recurrent Neural Networks. Journal of Open Source Software, 2016, 1, 60.	4.6	3
24	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
25	Spatial Representations in Local Field Potential Activity of Primate Anterior Intraparietal Cortex (AIP). PLoS ONE, 2015, 10, e0142679.	2.5	8
26	Decoding a Wide Range of Hand Configurations from Macaque Motor, Premotor, and Parietal Cortices. Journal of Neuroscience, 2015, 35, 1068-1081.	3.6	147
27	Visual Guidance in Control of Grasping. Annual Review of Neuroscience, 2015, 38, 69-86.	10.7	61
28	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
29	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
30	Reach and Gaze Representations in Macaque Parietal and Premotor Grasp Areas. Journal of Neuroscience, 2013, 33, 7038-7049.	3.6	125
31	BCIs That Use Signals Recorded in Parietal or Premotor Cortex. , 2012, , 290-299.		0
32	A new method of accurate hand- and arm-tracking for small primates. Journal of Neural Engineering, 2012, 9, 026025.	3.5	15
33	Grasp Movement Decoding from Premotor and Parietal Cortex. Journal of Neuroscience, 2011, 31, 14386-14398.	3.6	74
34	In search of more robust decoding algorithms for neural prostheses, a data driven approach. , 2010, 2010, 4172-5.		3
35	Context-Specific Grasp Movement Representation in Macaque Ventral Premotor Cortex. Journal of Neuroscience, 2010, 30, 15175-15184.	3.6	105
36	Context-Specific Grasp Movement Representation in the Macaque Anterior Intraparietal Area. Journal of Neuroscience, 2009, 29, 6436-6448.	3.6	264

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37	Neural control of motor prostheses. Current Opinion in Neurobiology, 2009, 19, 629-633.	4.2	39
38	Neural Prostheses for Reaching. , 2009, , 213-220.		2
39	Cortical Plasticity: A View from Nonhuman Primates. Neurodegenerative Diseases, 2007, 4, 34-42.	1.4	2
40	Target Selection Signals for Arm Reaching in the Posterior Parietal Cortex. Journal of Neuroscience, 2007, 27, 2001-2012.	3.6	122
41	Cortical Local Field Potential Encodes Movement Intentions in the Posterior Parietal Cortex. Neuron, 2005, 46, 347-354.	8.1	394
42	Cognitive Control Signals for Neural Prosthetics. Science, 2004, 305, 258-262.	12.6	642
43	Recording advances for neural prosthetics. , 2004, 2004, 5352-5.		15
44	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
45	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
46	Effect of light sleep on three-dimensional eye position in static roll and pitch. Vision Research, 2001, 41, 495-505.	1.4	9
47	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
48	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
49	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