

Christos Constantinidis

List of Publications by Year in descending order

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90
papers

6,797
citations

109321

35
h-index

74163

75
g-index

100
all docs

100
docs citations

100
times ranked

5447
citing authors

#	ARTICLE	IF	CITATIONS
1	Prefrontal cortical plasticity during learning of cognitive tasks. Nature Communications, 2022, 13, 90.	12.8	14
2	Rhythmicity of Prefrontal Local Field Potentials after Nucleus Basalis Stimulation. ENeuro, 2022, 9, ENEURO.0380-21.2022.	1.9	2
3	Protocol for behavioral and neural recording during stimulation of the macaque monkey nucleus basalis. STAR Protocols, 2022, 3, 101136.	1.2	1
4	Strong Gamma Frequency Oscillations in the Adolescent Prefrontal Cortex. Journal of Neuroscience, 2022, 42, 2917-2929.	3.6	8
5	Neural Mechanisms of Working Memory Accuracy Revealed by Recurrent Neural Networks. Frontiers in Systems Neuroscience, 2022, 16, 760864.	2.5	6
6	An evolutionary gap in primate default mode network organization. Cell Reports, 2022, 39, 110669.	6.4	33
7	More Prominent Nonlinear Mixed Selectivity in the Dorsolateral Prefrontal than Posterior Parietal Cortex. ENeuro, 2022, 9, ENEURO.0517-21.2022.	1.9	8
8	Alterations of Intrinsic Prefrontal Circuitry in Adolescence and Through Deep-Brain Stimulation in a Nonhuman Primate Model. Biological Psychiatry, 2022, 91, S15.	1.3	0
9	Multilevel atlas comparisons reveal divergent evolution of the primate brain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	6
10	Task-specific modulation of PFC activity for matching-rule governed decision-making. Brain Structure and Function, 2021, 226, 443-455.	2.3	8
11	Drifts in Prefrontal and Parietal Neuronal Activity Influence Working Memory Judgments. Cerebral Cortex, 2021, 31, 3650-3664.	2.9	8
12	Emergence of Non-Linear Mixed Selectivity in Prefrontal Cortex after Training. Journal of Neuroscience, 2021, 41, JN-RM-2814-20.	3.6	13
13	Nucleus basalis stimulation enhances working memory by stabilizing stimulus representations in primate prefrontal cortical activity. Cell Reports, 2021, 36, 109469.	6.4	12
14	MEG source imaging detects optogenetically-induced activity in cortical and subcortical networks. Nature Communications, 2021, 12, 5259.	12.8	9
15	Prefrontal gamma power and LFP tuning in working memory decrease during monkey adolescent development. Journal of Vision, 2021, 21, 2795.	0.3	0
16	Working Memory and Prefrontal Neural Activity of Macaques in Early Adolescence. Journal of Vision, 2021, 21, 2913.	0.3	0
17	Working Memory: From Neural Activity to the Sentient Mind. , 2021, 11, 2547-2587.		11
18	Cholinergic Deep Brain Stimulation for Memory and Cognitive Disorders. Journal of Alzheimer's Disease, 2021, 83, 491-503.	2.6	8

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19	Emergence of prefrontal neuron maturation properties by training recurrent neural networks in cognitive tasks. <i>IScience</i> , 2021, 24, 103178.	4.1	5
20	Trial-to-Trial Variability of Spiking Delay Activity in Prefrontal Cortex Constrains Burst-Coding Models of Working Memory. <i>Journal of Neuroscience</i> , 2021, 41, 8928-8945.	3.6	8
21	Plasticity of Persistent Activity and Its Constraints. <i>Frontiers in Neural Circuits</i> , 2020, 14, 15.	2.8	21
22	Interplay between persistent activity and activity-silent dynamics in the prefrontal cortex underlies serial biases in working memory. <i>Nature Neuroscience</i> , 2020, 23, 1016-1024.	14.8	154
23	Neural Substrates of Inhibitory Control Maturation in Adolescence. <i>Trends in Neurosciences</i> , 2019, 42, 604-616.	8.6	65
24	Working memory capacity is enhanced by distributed prefrontal activation and invariant temporal dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7095-7100.	7.1	33
25	Neuronal activity in Prefrontal and Posterior Parietal Cortex Mediating Working Memory Judgments. <i>Journal of Vision</i> , 2019, 19, 246b.	0.3	0
26	Intermittent stimulation in the nucleus basalis of meynert improves sustained attention in rhesus monkeys. <i>Neuropharmacology</i> , 2018, 137, 202-210.	4.1	22
27	Anterior-posterior gradient of plasticity in primate prefrontal cortex. <i>Nature Communications</i> , 2018, 9, 3790.	12.8	35
28	Representation of Spatial and Feature Information in the Monkey Dorsal and Ventral Prefrontal Cortex. <i>Frontiers in Integrative Neuroscience</i> , 2018, 12, 31.	2.1	25
29	Differential Processing of Isolated Object and Multi-item Pop-Out Displays in LIP and PFC. <i>Cerebral Cortex</i> , 2018, 28, 3816-3828.	2.9	21
30	Persistent Spiking Activity Underlies Working Memory. <i>Journal of Neuroscience</i> , 2018, 38, 7020-7028.	3.6	229
31	Functional specialization of areas along the anterior–posterior axis of the primate prefrontal cortex. <i>Cerebral Cortex</i> , 2017, 27, 3683-3697.	2.9	46
32	Fixation target representation in prefrontal cortex during the antisaccade task. <i>Journal of Neurophysiology</i> , 2017, 117, 2152-2162.	1.8	3
33	Stable population coding for working memory coexists with heterogeneous neural dynamics in prefrontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 394-399.	7.1	289
34	Intermittent Stimulation of the Nucleus Basalis of Meynert Improves Working Memory in Adult Monkeys. <i>Current Biology</i> , 2017, 27, 2640-2646.e4.	3.9	51
35	Potential for intermittent stimulation of nucleus basalis of Meynert to impact treatment of alzheimer's disease. <i>Communicative and Integrative Biology</i> , 2017, 10, e1389359.	1.4	12
36	Lateralization of Executive Function: Working Memory Advantage for Same Hemifield Stimuli in the Monkey. <i>Frontiers in Neuroscience</i> , 2017, 11, 532.	2.8	7

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37	The neuroscience of working memory capacity and training. <i>Nature Reviews Neuroscience</i> , 2016, 17, 438-449.	10.2	377
38	Neural correlates of working memory development in adolescent primates. <i>Nature Communications</i> , 2016, 7, 13423.	12.8	35
39	Distinct Roles of the Prefrontal and Posterior Parietal Cortices in Response Inhibition. <i>Cell Reports</i> , 2016, 14, 2765-2773.	6.4	23
40	Behavioral response inhibition and maturation of goal representation in prefrontal cortex after puberty. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3353-3358.	7.1	19
41	A Code for Cross-Modal Working Memory. <i>Neuron</i> , 2016, 89, 3-5.	8.1	4
42	Demixed principal component analysis of neural population data. <i>ELife</i> , 2016, 5, .	6.0	397
43	Plasticity of prefrontal cortical responses during learning in a working memory task. <i>Journal of Vision</i> , 2016, 16, 704.	0.3	0
44	Lower neuronal variability in the monkey dorsolateral prefrontal than posterior parietal cortex. <i>Journal of Neurophysiology</i> , 2015, 114, 2194-2203.	1.8	16
45	Neurophysiological Mechanisms of Working Memory. , 2015, , 171-186.		0
46	Representation of remembered stimuli and task information in the monkey dorsolateral prefrontal and posterior parietal cortex. <i>Journal of Neurophysiology</i> , 2015, 113, 44-57.	1.8	36
47	Role of Prefrontal Persistent Activity in Working Memory. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 181.	2.5	178
48	Age-dependent changes in prefrontal intrinsic connectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3853-3858.	7.1	32
49	Influence of monkey dorsolateral prefrontal and posterior parietal activity on behavioral choice during attention tasks. <i>European Journal of Neuroscience</i> , 2014, 40, 2910-2921.	2.6	11
50	Bottom-Up and Top-Down Attention. <i>Neuroscientist</i> , 2014, 20, 509-521.	3.5	283
51	Bump attractor dynamics in prefrontal cortex explains behavioral precision in spatial working memory. <i>Nature Neuroscience</i> , 2014, 17, 431-439.	14.8	352
52	Differences in Intrinsic Functional Organization Between Dorsolateral Prefrontal and Posterior Parietal Cortex. <i>Cerebral Cortex</i> , 2014, 24, 2334-2349.	2.9	30
53	Neural changes after training to perform cognitive tasks. <i>Behavioural Brain Research</i> , 2013, 241, 235-243.	2.2	43
54	Time Course of Functional Connectivity in Primate Dorsolateral Prefrontal and Posterior Parietal Cortex during Working Memory. <i>PLoS ONE</i> , 2013, 8, e81601.	2.5	12

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55	Working memory performance and neural activity in prefrontal cortex of peripubertal monkeys. <i>Journal of Neurophysiology</i> , 2013, 110, 2648-2660.	1.8	29
56	Cognitive functions of the posterior parietal cortex. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 35.	2.1	19
57	Neurons with inverted tuning during the delay periods of working memory tasks in the dorsal prefrontal and posterior parietal cortex. <i>Journal of Neurophysiology</i> , 2012, 108, 31-38.	1.8	34
58	Neural Correlates of a Decision Variable Before Learning to Perform a Match/Non-Match Task. <i>Journal of Neuroscience</i> , 2012, 32, 6161-6169.	3.6	31
59	Incorporation of new information into prefrontal cortical activity after learning working memory tasks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4651-4656.	7.1	95
60	Correlated discharges in the primate prefrontal cortex before and after working memory training. <i>European Journal of Neuroscience</i> , 2012, 36, 3538-3548.	2.6	41
61	Early involvement of prefrontal cortex in visual bottom-up attention. <i>Nature Neuroscience</i> , 2012, 15, 1160-1166.	14.8	107
62	Variability of Prefrontal Neuronal Discharges before and after Training in a Working Memory Task. <i>PLoS ONE</i> , 2012, 7, e41053.	2.5	56
63	Unique and shared roles of the posterior parietal and dorsolateral prefrontal cortex in cognitive functions. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 17.	2.1	73
64	Effects of task and coordinate frame of attention in area 7a of the primate posterior parietal cortex. <i>Journal of Vision</i> , 2011, 10, 12-12.	0.3	22
65	Stimulus Selectivity in Dorsal and Ventral Prefrontal Cortex after Training in Working Memory Tasks. <i>Journal of Neuroscience</i> , 2011, 31, 6266-6276.	3.6	111
66	Changes in Prefrontal Neuronal Activity after Learning to Perform a Spatial Working Memory Task. <i>Cerebral Cortex</i> , 2011, 21, 2722-2732.	2.9	72
67	Cholinergic modulation of working memory activity in primate prefrontal cortex. <i>Journal of Neurophysiology</i> , 2011, 106, 2180-2188.	1.8	47
68	Semantic confusion regarding the development of multisensory integration: a practical solution. <i>European Journal of Neuroscience</i> , 2010, 31, 1713-1720.	2.6	107
69	Comparison of neural activity related to working memory in primate dorsolateral prefrontal and posterior parietal cortex. <i>Frontiers in Systems Neuroscience</i> , 2010, 4, 12.	2.5	67
70	Neural correlates of learning and working memory in the primate posterior parietal cortex. <i>Neurobiology of Learning and Memory</i> , 2009, 91, 129-138.	1.9	60
71	Persistent Discharges in the Prefrontal Cortex of Monkeys Naive to Working Memory Tasks. <i>Cerebral Cortex</i> , 2007, 17, i70-i76.	2.9	44
72	Temporal Properties of Posterior Parietal Neuron Discharges During Working Memory and Passive Viewing. <i>Journal of Neurophysiology</i> , 2007, 97, 2254-2266.	1.8	26

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73	Synchronous oscillations and phase reorganization in the basal ganglia during akinesia induced by high-dose haloperidol. <i>European Journal of Neuroscience</i> , 2007, 26, 1912-1924.	2.6	28
74	Posterior Parietal Mechanisms of Visual Attention. <i>Reviews in the Neurosciences</i> , 2006, 17, 415-27.	2.9	33
75	A software solution for the control of visual behavioral experimentation. <i>Journal of Neuroscience Methods</i> , 2005, 142, 27-34.	2.5	58
76	Posterior Parietal Cortex Automatically Encodes the Location of Salient Stimuli. <i>Journal of Neuroscience</i> , 2005, 25, 233-238.	3.6	119
77	Division of labor among distinct subtypes of inhibitory neurons in a cortical microcircuit of working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1368-1373.	7.1	348
78	The primate working memory networks. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2004, 4, 444-465.	2.0	160
79	A Neural Circuit Basis for Spatial Working Memory. <i>Neuroscientist</i> , 2004, 10, 553-565.	3.5	166
80	Temporally Irregular Mnemonic Persistent Activity in Prefrontal Neurons of Monkeys During a Delayed Response Task. <i>Journal of Neurophysiology</i> , 2003, 90, 3441-3454.	1.8	235
81	Correlated Discharges Among Putative Pyramidal Neurons and Interneurons in the Primate Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2002, 88, 3487-3497.	1.8	269
82	A role for inhibition in shaping the temporal flow of information in prefrontal cortex. <i>Nature Neuroscience</i> , 2002, 5, 175-180.	14.8	370
83	Coding Specificity in Cortical Microcircuits: A Multiple-Electrode Analysis of Primate Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2001, 21, 3646-3655.	3.6	224
84	The sensory nature of mnemonic representation in the primate prefrontal cortex. <i>Nature Neuroscience</i> , 2001, 4, 311-316.	14.8	247
85	Neuronal Responses in Area 7a to Multiple-stimulus Displays: I. Neurons Encode the Location of the Salient Stimulus. <i>Cerebral Cortex</i> , 2001, 11, 581-591.	2.9	126
86	Neuronal activity in posterior parietal area 7a during the delay periods of a spatial memory task. <i>Journal of Neurophysiology</i> , 1996, 76, 1352-1355.	1.8	224
87	Covert attention suppresses neuronal responses in area 7a of the posterior parietal cortex. <i>Journal of Neurophysiology</i> , 1994, 72, 1020-1023.	1.8	104
88	An Evolutionary Gap in Primate Default Mode Network Organization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
89	Emergence of Prefrontal Neuron Maturation Properties by Training Recurrent Neural Networks in Cognitive Tasks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
90	Intermittent Stimulation of the Nucleus Basalis of Meynert Improves Working Memory in Adult Monkeys. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0