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List of Publications by Year
in descending order

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117 papers	6,994 citations	61945 43 h-index	66879 78 g-index
124 all docs	124 docs citations	124 times ranked	6858 citing authors

#	Article	IF	Citations
1	Automated analysis of free speech predicts psychosis onset in high-risk youths. NPJ Schizophrenia, 2015, 1, 15030.	2.0	453
2	The Psychedelic State Induced by Ayahuasca Modulates the Activity and Connectivity of the Default Mode Network. PLoS ONE, 2015, 10, e0118143.	1.1	308
3	Behaviourally driven gene expression reveals song nuclei in hummingbird brain. Nature, 2000, 406, 628-632.	13.7	279
4	Global Forebrain Dynamics Predict Rat Behavioral States and Their Transitions. Journal of Neuroscience, 2004, 24, 11137-11147.	1.7	272
5	Dopaminergic Control of Sleep-Wake States. Journal of Neuroscience, 2006, 26, 10577-10589.	1.7	262
6	Induction of Hippocampal Long-Term Potentiation during Waking Leads to Increased Extrahippocampalzif-268Expression during Ensuing Rapid-Eye-Movement Sleep. Journal of Neuroscience, 2002, 22, 10914-10923.	1.7	231
7	Long-Lasting Novelty-Induced Neuronal Reverberation during Slow-Wave Sleep in Multiple Forebrain Areas. PLoS Biology, 2004, 2, e24.	2.6	223
8	ZENK protein regulation by song in the brain of songbirds. Journal of Comparative Neurology, 1998, 393, 426-438.	0.9	209
9	Brain Gene Expression During REM Sleep Depends on Prior Waking Experience. Learning and Memory, 1999, 6, 500-508.	0.5	201
10	Toward a Song Code. Neuron, 1998, 21, 359-371.	3.8	173
11	Speech Graphs Provide a Quantitative Measure of Thought Disorder in Psychosis. PLoS ONE, 2012, 7, e34928.	1.1	173
12	Spike Avalanches Exhibit Universal Dynamics across the Sleep-Wake Cycle. PLoS ONE, 2010, 5, e14129.	1.1	166
13	Criticality between Cortical States. Physical Review Letters, 2019, 122, 208101.	2.9	159
14	Seeing with the eyes shut: Neural basis of enhanced imagery following ayahuasca ingestion. Human Brain Mapping, 2012, 33, 2550-2560.	1.9	156
15	Detecting cell assemblies in large neuronal populations. Journal of Neuroscience Methods, 2013, 220, 149-166.	1.3	146
16	Long-term use of psychedelic drugs is associated with differences in brain structure and personality in humans. European Neuropsychopharmacology, 2015, 25, 483-492.	0.3	145
17	Neuroscience and education: prime time to build the bridge. Nature Neuroscience, 2014, 17, 497-502.	7.1	137
18	Theta Phase Modulates Multiple Layer-Specific Oscillations in the CA1 Region. Cerebral Cortex, 2012, 22, 2404-2414.	1.6	125

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19	Reverberation, storage, and postsynaptic propagation of memories during sleep. Learning and Memory, 2004, 11, 686-696.	0.5	122
20	Noradrenergic system of the zebra finch brain: Immunocytochemical study of dopamine-?-hydroxylase. Journal of Comparative Neurology, 1998, 400, 207-228.	0.9	119
21	On High-Frequency Field Oscillations (>100 Hz) and the Spectral Leakage of Spiking Activity. Journal of Neuroscience, 2013, 33, 1535-1539.	1.7	116
22	Multielectrode recordings: the next steps. Current Opinion in Neurobiology, 2002, 12, 602-606.	2.0	111
23	Ketamine alters oscillatory coupling in the hippocampus. Scientific Reports, 2013, 3, 2348.	1.6	111
24	Thought disorder measured as random speech structure classifies negative symptoms and schizophrenia diagnosis 6 months in advance. NPJ Schizophrenia, 2017, 3, 18.	2.0	107
25	Improvement in physiological and psychological parameters after 6months of yoga practice. Consciousness and Cognition, 2012, 21, 843-850.	0.8	105
26	Novel experience induces persistent sleep-dependent plasticity in the cortex but not in the hippocampus. Frontiers in Neuroscience, 2007, 1, 43-55.	1.4	101
27	Graph analysis of dream reports is especially informative about psychosis. Scientific Reports, 2014, 4, 3691.	1.6	95
28	Comprehensive Analysis of Tissue Preservation and Recording Quality from Chronic Multielectrode Implants. PLoS ONE, 2011, 6, e27554.	1.1	94
29	Short term changes in the proteome of human cerebral organoids induced by 5-MeO-DMT. Scientific Reports, 2017, 7, 12863.	1.6	87
30	Processing of tactile information by the hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18286-18291.	3.3	81
31	Neuronal Assembly Detection and Cell Membership Specification by Principal Component Analysis. PLoS ONE, 2011, 6, e20996.	1.1	71
32	Graph analysis of verbal fluency test discriminate between patients with Alzheimer's disease, mild cognitive impairment and normal elderly controls. Frontiers in Aging Neuroscience, 2014, 6, 185.	1.7	67
33	Motor Coordination Correlates with Academic Achievement and Cognitive Function in Children. Frontiers in Psychology, 2016, 7, 318.	1.1	66
34	Cross-modal responses in the primary visual cortex encode complex objects and correlate with tactile discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15408-15413.	3.3	65
35	Differential roles of the dorsal hippocampal regions in the acquisition of spatial and temporal aspects of episodic-like memory. Behavioural Brain Research, 2012, 232, 269-277.	1.2	64
36	Speech structure links the neural and socio-behavioural correlates of psychotic disorders. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 88, 112-120.	2.5	59

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37	Brain gene regulation by territorial singing behavior in freely ranging songbirds. NeuroReport, 1997, 8, 2073-2077.	0.6	57
38	Undersampled Critical Branching Processes on Small-World and Random Networks Fail to Reproduce the Statistics of Spike Avalanches. PLoS ONE, 2014, 9, e94992.	1.1	57
39	Electrophysiological Evidence That the Retrosplenial Cortex Displays a Strong and Specific Activation Phased with Hippocampal Theta during Paradoxical (REM) Sleep. Journal of Neuroscience, 2017, 37, 8003-8013.	1.7	57
40	Neuronal Activity in the Primary Somatosensory Thalamocortical Loop Is Modulated by Reward Contingency during Tactile Discrimination. Journal of Neuroscience, 2007, 27, 10608-10620.	1.7	52
41	Sleep and plasticity. Pflugers Archiv European Journal of Physiology, 2012, 463, 111-120.	1.3	51
42	Dreaming during the Covid-19 pandemic: Computational assessment of dream reports reveals mental suffering related to fear of contagion. PLoS ONE, 2020, 15, e0242903.	1.1	51
43	The interpretation of dream meaning: Resolving ambiguity using Latent Semantic Analysis in a small corpus of text. Consciousness and Cognition, 2017, 56, 178-187.	0.8	48
44	Increase in hippocampal theta oscillations during spatial decision making. Hippocampus, 2014, 24, 693-702.	0.9	47
45	Synaptic Homeostasis and Restructuring across the Sleep-Wake Cycle. PLoS Computational Biology, 2015, 11, e1004241.	1.5	42
46	Noradrenergic Control of Gene Expression and Long-Term Neuronal Adaptation Evoked by Learned Vocalizations in Songbirds. PLoS ONE, 2012, 7, e36276.	1.1	41
47	Gene Expression and Synaptic Plasticity in the Auditory Forebrain of Songbirds. Learning and Memory, 2000, 7, 235-243.	0.5	38
48	Activation of frontal neocortical areas by vocal production in marmosets. Frontiers in Integrative Neuroscience, 2010, 4, .	1.0	36
49	Novel Virtual Environment for Alternative Treatment of Children with Cerebral Palsy. Computational Intelligence and Neuroscience, 2016, 2016, 1-10.	1.1	35
50	Reducing the Schizophrenia Stigma: A New Approach Based on Augmented Reality. Computational Intelligence and Neuroscience, 2017, 2017, 1-10.	1.1	35
51	Beta2 oscillations (23â€“30ÂHz) in the mouse hippocampus during novel object recognition. European Journal of Neuroscience, 2014, 40, 3693-3703.	1.2	34
52	Psychosis and the Control of Lucid Dreaming. Frontiers in Psychology, 2016, 7, 294.	1.1	34
53	The maturation of speech structure in psychosis is resistant to formal education. NPJ Schizophrenia, 2018, 4, 25.	2.0	33
54	Sleep Deprivation and Gene Expression. Current Topics in Behavioral Neurosciences, 2015, 25, 65-90.	0.8	32

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55	Experience-dependent upregulation of multiple plasticity factors in the hippocampus during early REM sleep. Neurobiology of Learning and Memory, 2015, 122, 19-27.	1.0	32
56	Dopamine Modulates Delta-Gamma Phase-Amplitude Coupling in the Prefrontal Cortex of Behaving Rats. Frontiers in Neural Circuits, 2017, 11, 29.	1.4	32
57	A Naturalistic Assessment of the Organization of Children's Memories Predicts Cognitive Functioning and Reading Ability. Mind, Brain, and Education, 2016, 10, 184-195.	0.9	31
58	Computational fluid dynamic analysis of physical forces playing a role in brain organoid cultures in two different multiplex platforms. BMC Developmental Biology, 2019, 19, 3.	2.1	31
59	Machine Learning Algorithms for Automatic Classification of Marmoset Vocalizations. PLoS ONE, 2016, 11, e0163041.	1.1	30
60	Symbols are not uniquely human. BioSystems, 2007, 90, 263-272.	0.9	29
61	Dream characteristics in a Brazilian sample: an online survey focusing on lucid dreaming. Frontiers in Human Neuroscience, 2013, 7, 836.	1.0	29
62	Sleep and school education. Trends in Neuroscience and Education, 2014, 3, 18-23.	1.5	29
63	Naps in school can enhance the duration of declarative memories learned by adolescents. Frontiers in Systems Neuroscience, 2014, 8, 103.	1.2	28
64	Cyclic alternation of quiet and active sleep states in the octopus. IScience, 2021, 24, 102223.	1.9	28
65	Long-term decrease in immediate early gene expression after electroconvulsive seizures. Journal of Neural Transmission, 2013, 120, 259-266.	1.4	24
66	D2 dopamine receptor regulation of learning, sleep and plasticity. European Neuropsychopharmacology, 2015, 25, 493-504.	0.3	24
67	Hippocampus-retrosplenial cortex interaction is increased during phasic REM and contributes to memory consolidation. Scientific Reports, 2021, 11, 13078.	1.6	23
68	The entropic tongue: Disorganization of natural language under LSD. Consciousness and Cognition, 2021, 87, 103070.	0.8	20
69	LSD, madness and healing: Mystical experiences as possible link between psychosis model and therapy model. Psychological Medicine, 2023, 53, 1151-1165.	2.7	20
70	Persistent Hyperdopaminergia Decreases the Peak Frequency of Hippocampal Theta Oscillations during Quiet Waking and REM Sleep. PLoS ONE, 2009, 4, e5238.	1.1	19
71	Memory corticalization triggered by REM sleep: mechanisms of cellular and systems consolidation. Cellular and Molecular Life Sciences, 2018, 75, 3715-3740.	2.4	18
72	Post-class naps boost declarative learning in a naturalistic school setting. Npj Science of Learning, 2018, 3, 14.	1.5	18

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73	An investigation of Hebbian phase sequences as assembly graphs. Frontiers in Neural Circuits, 2014, 8, 34.	1.4	17
74	Selective Inhibition of Mirror Invariance for Letters Consolidated by Sleep Doubles Reading Fluency. Current Biology, 2021, 31, 742-752.e8.	1.8	17
75	LSD and creativity: Increased novelty and symbolic thinking, decreased utility and convergent thinking. Journal of Psychopharmacology, 2022, 36, 348-359.	2.0	16
76	LSD, afterglow and hangover: Increased episodic memory and verbal fluency, decreased cognitive flexibility. European Neuropsychopharmacology, 2022, 58, 7-19.	0.3	15
77	Repertoires of Spike Avalanches Are Modulated by Behavior and Novelty. Frontiers in Neural Circuits, 2016, 10, 16.	1.4	14
78	Object recognition impairment and rescue by a dopamine D2 antagonist in hyperdopaminergic mice. Behavioural Brain Research, 2016, 308, 211-216.	1.2	14
79	Mouse Activity across Time Scales: Fractal Scenarios. PLoS ONE, 2014, 9, e105092.	1.1	13
80	Structural differences between REM and non-REM dream reports assessed by graph analysis. PLoS ONE, 2020, 15, e0228903.	1.1	13
81	Light-induced Egr-1 expression in the striate cortex of the opossum. Brain Research Bulletin, 2003, 61, 139-146.	1.4	12
82	Verbal Shortâ€Term Memory Underlies Typical Development of â€œThought Organizationâ€•Measured as Speech Connectedness. Mind, Brain, and Education, 2020, 14, 51-60.	0.9	12
83	Nootropic effects of LSD: Behavioral, molecular and computational evidence. Experimental Neurology, 2022, 356, 114148.	2.0	11
84	Baseline hippocampal theta oscillation speeds correlate with rate of operant task acquisition. Behavioural Brain Research, 2008, 190, 152-155.	1.2	10
85	Coupled variability in primary sensory areas and the hippocampus during spontaneous activity. Scientific Reports, 2017, 7, 46077.	1.6	10
86	An automated system for the mapping and quantitative analysis of immunocytochemistry of an inducible nuclear protein. Journal of Neuroscience Methods, 1999, 87, 147-158.	1.3	9
87	Computational Tracking of Mental Health in Youth: Latin American Contributions to a Low-Cost and Effective Solution for Early Psychiatric Diagnosis. New Directions for Child and Adolescent Development, 2016, 2016, 59-69.	1.3	9
88	Hippocampal functional organization: A microstructure of the place cell network encoding space. Neurobiology of Learning and Memory, 2019, 161, 122-134.	1.0	9
89	Recent Evidence of Memory Processing in Sleep. , 2003, , 327-362.		9
90	Low-dose LSD and the stream of thought: Increased Discontinuity of Mind, Deep Thoughts and abstract flow. Psychopharmacology, 2022, 239, 1721-1733.	1.5	9

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91	Whole Organisms or Pure Compounds? Entourage Effect Versus Drug Specificity. , 2018, , 133-149.		8
92	REHAB FUN: an assistive technology in neurological motor disorders rehabilitation of children with cerebral palsy. Neural Computing and Applications, 2020, 32, 10957-10970.	3.2	8
93	Computational models of memory consolidation and long-term synaptic plasticity during sleep. Neurobiology of Learning and Memory, 2019, 160, 32-47.	1.0	7
94	Capacity building: Architects of South American science. Nature, 2014, 510, 209-212.	13.7	6
95	Physiology and assessment as low-hanging fruit for education overhaul. Prospects, 2016, 46, 249-264.	1.3	4
96	Automated Speech Analysis for Psychosis Evaluation. Lecture Notes in Computer Science, 2016, , 31-39.	1.0	4
97	The History of Writing Reflects the Effects of Education on Discourse Structure: Implications for Literacy, Orality, Psychosis and the Axial Age. Trends in Neuroscience and Education, 2020, 21, 100142.	1.5	4
98	Educating to Build Bridges. Mind, Brain, and Education, 2013, 7, 101-103.	0.9	3
99	RelaÃ§Ã£o entre qualidade do sono e funÃ§Ãµes cognitivas em pacientes com doenÃ§a de Parkinson. Universitas Scientiarum, 2013, 18, .	0.2	2
100	Can vocal conditioning trigger a semiotic ratchet in marmosets?. Frontiers in Psychology, 2015, 6, 1519.	1.1	2
101	Recording Day and Night: Advice for New Investigators in the Sleep and Memory Field. Handbook of Behavioral Neuroscience, 2018, , 43-62.	0.7	2
102	Tempo de cÃ©rebro. Estudos Avancados, 2013, 27, 07-22.	0.2	2
103	Non-visual exploration of novel objects increases the levels of plasticity factors in the rat primary visual cortex. PeerJ, 2018, 6, e5678.	0.9	1
104	On Building Meaning: A Biologically-Inspired Experiment on Symbol-Based Communication. Advances in Experimental Medicine and Biology, 2010, 657, 77-93.	0.8	1
105	From theoretical and empirical constraints to synthetic experiments on symbol-based communication. , 2007, , .		0
106	The onset of data-driven mental archeology. Frontiers in Neuroscience, 2014, 8, 249.	1.4	0
107	Sleep, Synaptic Plasticity, and Memory. , 2017, , 539-562.		0
108	A protocol to examine the learning effects of â€˜multisystem mappingâ€™ training combined with post-training sleep consolidation in beginning readers. STAR Protocols, 2021, 2, 100712.	0.5	0

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109	Nonsemantic word graphs of texts spanning â^¼ 4500 years, including pre-literate Amerindian oral narratives. Data in Brief, 2021, 38, 107296.	0.5	0
110	Neuronal Reverberation and the Consolidation of New Memories across the Wake-Sleep Cycle. , 2004, , 196-218.		0
111	ExperiÃªncias mÃsticas no uso de diversos psicodÃ©licos: anÃ¡lise de um Survey Online. , 0, , .		0
112	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0
113	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0
114	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0
115	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0
116	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0
117	Structural differences between REM and non-REM dream reports assessed by graph analysis. , 2020, 15, e0228903.		0