

Sidarta Tg Ribeiro

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,994
citations

61984

43
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66911

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. | 3.6 | 453 |
| 2 | The Psychedelic State Induced by Ayahuasca Modulates the Activity and Connectivity of the Default Mode Network. PLoS ONE, 2015, 10, e0118143. | 2.5 | 308 |
| 3 | Behaviourally driven gene expression reveals song nuclei in hummingbird brain. Nature, 2000, 406, 628-632. | 27.8 | 279 |
| 4 | Global Forebrain Dynamics Predict Rat Behavioral States and Their Transitions. Journal of Neuroscience, 2004, 24, 11137-11147. | 3.6 | 272 |
| 5 | Dopaminergic Control of Sleep-Wake States. Journal of Neuroscience, 2006, 26, 10577-10589. | 3.6 | 262 |
| 6 | Induction of Hippocampal Long-Term Potentiation during Waking Leads to Increased Extrahippocampal <i>zif-268</i> Expression during Ensuing Rapid-Eye-Movement Sleep. Journal of Neuroscience, 2002, 22, 10914-10923. | 3.6 | 231 |
| 7 | Long-Lasting Novelty-Induced Neuronal Reverberation during Slow-Wave Sleep in Multiple Forebrain Areas. PLoS Biology, 2004, 2, e24. | 5.6 | 223 |
| 8 | ZENK protein regulation by song in the brain of songbirds. Journal of Comparative Neurology, 1998, 393, 426-438. | 1.6 | 209 |
| 9 | Brain Gene Expression During REM Sleep Depends on Prior Waking Experience. Learning and Memory, 1999, 6, 500-508. | 1.3 | 201 |
| 10 | Toward a Song Code. Neuron, 1998, 21, 359-371. | 8.1 | 173 |
| 11 | Speech Graphs Provide a Quantitative Measure of Thought Disorder in Psychosis. PLoS ONE, 2012, 7, e34928. | 2.5 | 173 |
| 12 | Spike Avalanches Exhibit Universal Dynamics across the Sleep-Wake Cycle. PLoS ONE, 2010, 5, e14129. | 2.5 | 166 |
| 13 | Criticality between Cortical States. Physical Review Letters, 2019, 122, 208101. | 7.8 | 159 |
| 14 | Seeing with the eyes shut: Neural basis of enhanced imagery following ayahuasca ingestion. Human Brain Mapping, 2012, 33, 2550-2560. | 3.6 | 156 |
| 15 | Detecting cell assemblies in large neuronal populations. Journal of Neuroscience Methods, 2013, 220, 149-166. | 2.5 | 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. | 0.7 | 145 |
| 17 | Neuroscience and education: prime time to build the bridge. Nature Neuroscience, 2014, 17, 497-502. | 14.8 | 137 |
| 18 | Theta Phase Modulates Multiple Layer-Specific Oscillations in the CA1 Region. Cerebral Cortex, 2012, 22, 2404-2414. | 2.9 | 125 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Reverberation, storage, and postsynaptic propagation of memories during sleep. <i>Learning and Memory</i> , 2004, 11, 686-696. | 1.3 | 122 |
| 20 | Noradrenergic system of the zebra finch brain: Immunocytochemical study of dopamine- β -hydroxylase. <i>Journal of Comparative Neurology</i> , 1998, 400, 207-228. | 1.6 | 119 |
| 21 | On High-Frequency Field Oscillations (>100 Hz) and the Spectral Leakage of Spiking Activity. <i>Journal of Neuroscience</i> , 2013, 33, 1535-1539. | 3.6 | 116 |
| 22 | Multielectrode recordings: the next steps. <i>Current Opinion in Neurobiology</i> , 2002, 12, 602-606. | 4.2 | 111 |
| 23 | Ketamine alters oscillatory coupling in the hippocampus. <i>Scientific Reports</i> , 2013, 3, 2348. | 3.3 | 111 |
| 24 | Thought disorder measured as random speech structure classifies negative symptoms and schizophrenia diagnosis 6 months in advance. <i>NPJ Schizophrenia</i> , 2017, 3, 18. | 3.6 | 107 |
| 25 | Improvement in physiological and psychological parameters after 6 months of yoga practice. <i>Consciousness and Cognition</i> , 2012, 21, 843-850. | 1.5 | 105 |
| 26 | Novel experience induces persistent sleep-dependent plasticity in the cortex but not in the hippocampus. <i>Frontiers in Neuroscience</i> , 2007, 1, 43-55. | 2.8 | 101 |
| 27 | Graph analysis of dream reports is especially informative about psychosis. <i>Scientific Reports</i> , 2014, 4, 3691. | 3.3 | 95 |
| 28 | Comprehensive Analysis of Tissue Preservation and Recording Quality from Chronic Multielectrode Implants. <i>PLoS ONE</i> , 2011, 6, e27554. | 2.5 | 94 |
| 29 | Short term changes in the proteome of human cerebral organoids induced by 5-MeO-DMT. <i>Scientific Reports</i> , 2017, 7, 12863. | 3.3 | 87 |
| 30 | Processing of tactile information by the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18286-18291. | 7.1 | 81 |
| 31 | Neuronal Assembly Detection and Cell Membership Specification by Principal Component Analysis. <i>PLoS ONE</i> , 2011, 6, e20996. | 2.5 | 71 |
| 32 | Graph analysis of verbal fluency test discriminate between patients with Alzheimer's disease, mild cognitive impairment and normal elderly controls. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 185. | 3.4 | 67 |
| 33 | Motor Coordination Correlates with Academic Achievement and Cognitive Function in Children. <i>Frontiers in Psychology</i> , 2016, 7, 318. | 2.1 | 66 |
| 34 | Cross-modal responses in the primary visual cortex encode complex objects and correlate with tactile discrimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15408-15413. | 7.1 | 65 |
| 35 | Differential roles of the dorsal hippocampal regions in the acquisition of spatial and temporal aspects of episodic-like memory. <i>Behavioural Brain Research</i> , 2012, 232, 269-277. | 2.2 | 64 |
| 36 | Speech structure links the neural and socio-behavioural correlates of psychotic disorders. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 88, 112-120. | 4.8 | 59 |

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|----|---|-----|-----------|
| 37 | Brain gene regulation by territorial singing behavior in freely ranging songbirds. <i>NeuroReport</i> , 1997, 8, 2073-2077. | 1.2 | 57 |
| 38 | Undersampled Critical Branching Processes on Small-World and Random Networks Fail to Reproduce the Statistics of Spike Avalanches. <i>PLoS ONE</i> , 2014, 9, e94992. | 2.5 | 57 |
| 39 | Electrophysiological Evidence That the Retrosplenial Cortex Displays a Strong and Specific Activation Phased with Hippocampal Theta during Paradoxical (REM) Sleep. <i>Journal of Neuroscience</i> , 2017, 37, 8003-8013. | 3.6 | 57 |
| 40 | Neuronal Activity in the Primary Somatosensory Thalamocortical Loop Is Modulated by Reward Contingency during Tactile Discrimination. <i>Journal of Neuroscience</i> , 2007, 27, 10608-10620. | 3.6 | 52 |
| 41 | Sleep and plasticity. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 463, 111-120. | 2.8 | 51 |
| 42 | Dreaming during the Covid-19 pandemic: Computational assessment of dream reports reveals mental suffering related to fear of contagion. <i>PLoS ONE</i> , 2020, 15, e0242903. | 2.5 | 51 |
| 43 | The interpretation of dream meaning: Resolving ambiguity using Latent Semantic Analysis in a small corpus of text. <i>Consciousness and Cognition</i> , 2017, 56, 178-187. | 1.5 | 48 |
| 44 | Increase in hippocampal theta oscillations during spatial decision making. <i>Hippocampus</i> , 2014, 24, 693-702. | 1.9 | 47 |
| 45 | Synaptic Homeostasis and Restructuring across the Sleep-Wake Cycle. <i>PLoS Computational Biology</i> , 2015, 11, e1004241. | 3.2 | 42 |
| 46 | Noradrenergic Control of Gene Expression and Long-Term Neuronal Adaptation Evoked by Learned Vocalizations in Songbirds. <i>PLoS ONE</i> , 2012, 7, e36276. | 2.5 | 41 |
| 47 | Gene Expression and Synaptic Plasticity in the Auditory Forebrain of Songbirds. <i>Learning and Memory</i> , 2000, 7, 235-243. | 1.3 | 38 |
| 48 | Activation of frontal neocortical areas by vocal production in marmosets. <i>Frontiers in Integrative Neuroscience</i> , 2010, 4, . | 2.1 | 36 |
| 49 | Novel Virtual Environment for Alternative Treatment of Children with Cerebral Palsy. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-10. | 1.7 | 35 |
| 50 | Reducing the Schizophrenia Stigma: A New Approach Based on Augmented Reality. <i>Computational Intelligence and Neuroscience</i> , 2017, 2017, 1-10. | 1.7 | 35 |
| 51 | Beta2 oscillations (23-30 Hz) in the mouse hippocampus during novel object recognition. <i>European Journal of Neuroscience</i> , 2014, 40, 3693-3703. | 2.6 | 34 |
| 52 | Psychosis and the Control of Lucid Dreaming. <i>Frontiers in Psychology</i> , 2016, 7, 294. | 2.1 | 34 |
| 53 | The maturation of speech structure in psychosis is resistant to formal education. <i>NPJ Schizophrenia</i> , 2018, 4, 25. | 3.6 | 33 |
| 54 | Sleep Deprivation and Gene Expression. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 25, 65-90. | 1.7 | 32 |

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|----|---|-----|-----------|
| 55 | Experience-dependent upregulation of multiple plasticity factors in the hippocampus during early REM sleep. <i>Neurobiology of Learning and Memory</i> , 2015, 122, 19-27. | 1.9 | 32 |
| 56 | Dopamine Modulates Delta-Gamma Phase-Amplitude Coupling in the Prefrontal Cortex of Behaving Rats. <i>Frontiers in Neural Circuits</i> , 2017, 11, 29. | 2.8 | 32 |
| 57 | A Naturalistic Assessment of the Organization of Children's Memories Predicts Cognitive Functioning and Reading Ability. <i>Mind, Brain, and Education</i> , 2016, 10, 184-195. | 1.9 | 31 |
| 58 | Computational fluid dynamic analysis of physical forces playing a role in brain organoid cultures in two different multiplex platforms. <i>BMC Developmental Biology</i> , 2019, 19, 3. | 2.1 | 31 |
| 59 | Machine Learning Algorithms for Automatic Classification of Marmoset Vocalizations. <i>PLoS ONE</i> , 2016, 11, e0163041. | 2.5 | 30 |
| 60 | Symbols are not uniquely human. <i>BioSystems</i> , 2007, 90, 263-272. | 2.0 | 29 |
| 61 | Dream characteristics in a Brazilian sample: an online survey focusing on lucid dreaming. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 836. | 2.0 | 29 |
| 62 | Sleep and school education. <i>Trends in Neuroscience and Education</i> , 2014, 3, 18-23. | 3.1 | 29 |
| 63 | Naps in school can enhance the duration of declarative memories learned by adolescents. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 103. | 2.5 | 28 |
| 64 | Cyclic alternation of quiet and active sleep states in the octopus. <i>IScience</i> , 2021, 24, 102223. | 4.1 | 28 |
| 65 | Long-term decrease in immediate early gene expression after electroconvulsive seizures. <i>Journal of Neural Transmission</i> , 2013, 120, 259-266. | 2.8 | 24 |
| 66 | D2 dopamine receptor regulation of learning, sleep and plasticity. <i>European Neuropsychopharmacology</i> , 2015, 25, 493-504. | 0.7 | 24 |
| 67 | Hippocampus-retrosplenial cortex interaction is increased during phasic REM and contributes to memory consolidation. <i>Scientific Reports</i> , 2021, 11, 13078. | 3.3 | 23 |
| 68 | The entropic tongue: Disorganization of natural language under LSD. <i>Consciousness and Cognition</i> , 2021, 87, 103070. | 1.5 | 20 |
| 69 | LSD, madness and healing: Mystical experiences as possible link between psychosis model and therapy model. <i>Psychological Medicine</i> , 2023, 53, 1151-1165. | 4.5 | 20 |
| 70 | Persistent Hyperdopaminergia Decreases the Peak Frequency of Hippocampal Theta Oscillations during Quiet Waking and REM Sleep. <i>PLoS ONE</i> , 2009, 4, e5238. | 2.5 | 19 |
| 71 | Memory corticalization triggered by REM sleep: mechanisms of cellular and systems consolidation. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3715-3740. | 5.4 | 18 |
| 72 | Post-class naps boost declarative learning in a naturalistic school setting. <i>Npj Science of Learning</i> , 2018, 3, 14. | 2.8 | 18 |

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|----|--|-----|-----------|
| 73 | An investigation of Hebbian phase sequences as assembly graphs. <i>Frontiers in Neural Circuits</i> , 2014, 8, 34. | 2.8 | 17 |
| 74 | Selective Inhibition of Mirror Invariance for Letters Consolidated by Sleep Doubles Reading Fluency. <i>Current Biology</i> , 2021, 31, 742-752.e8. | 3.9 | 17 |
| 75 | LSD and creativity: Increased novelty and symbolic thinking, decreased utility and convergent thinking. <i>Journal of Psychopharmacology</i> , 2022, 36, 348-359. | 4.0 | 16 |
| 76 | LSD, afterglow and hangover: Increased episodic memory and verbal fluency, decreased cognitive flexibility. <i>European Neuropsychopharmacology</i> , 2022, 58, 7-19. | 0.7 | 15 |
| 77 | Repertoires of Spike Avalanches Are Modulated by Behavior and Novelty. <i>Frontiers in Neural Circuits</i> , 2016, 10, 16. | 2.8 | 14 |
| 78 | Object recognition impairment and rescue by a dopamine D2 antagonist in hyperdopaminergic mice. <i>Behavioural Brain Research</i> , 2016, 308, 211-216. | 2.2 | 14 |
| 79 | Mouse Activity across Time Scales: Fractal Scenarios. <i>PLoS ONE</i> , 2014, 9, e105092. | 2.5 | 13 |
| 80 | Structural differences between REM and non-REM dream reports assessed by graph analysis. <i>PLoS ONE</i> , 2020, 15, e0228903. | 2.5 | 13 |
| 81 | Light-induced Egr-1 expression in the striate cortex of the opossum. <i>Brain Research Bulletin</i> , 2003, 61, 139-146. | 3.0 | 12 |
| 82 | Verbal Short-Term Memory Underlies Typical Development of Thought Organization Measured as Speech Connectedness. <i>Mind, Brain, and Education</i> , 2020, 14, 51-60. | 1.9 | 12 |
| 83 | Nootropic effects of LSD: Behavioral, molecular and computational evidence. <i>Experimental Neurology</i> , 2022, 356, 114148. | 4.1 | 11 |
| 84 | Baseline hippocampal theta oscillation speeds correlate with rate of operant task acquisition. <i>Behavioural Brain Research</i> , 2008, 190, 152-155. | 2.2 | 10 |
| 85 | Coupled variability in primary sensory areas and the hippocampus during spontaneous activity. <i>Scientific Reports</i> , 2017, 7, 46077. | 3.3 | 10 |
| 86 | An automated system for the mapping and quantitative analysis of immunocytochemistry of an inducible nuclear protein. <i>Journal of Neuroscience Methods</i> , 1999, 87, 147-158. | 2.5 | 9 |
| 87 | Computational Tracking of Mental Health in Youth: Latin American Contributions to a Low-Cost and Effective Solution for Early Psychiatric Diagnosis. <i>New Directions for Child and Adolescent Development</i> , 2016, 2016, 59-69. | 2.2 | 9 |
| 88 | Hippocampal functional organization: A microstructure of the place cell network encoding space. <i>Neurobiology of Learning and Memory</i> , 2019, 161, 122-134. | 1.9 | 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. <i>Psychopharmacology</i> , 2022, 239, 1721-1733. | 3.1 | 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. | 5.6 | 8 |
| 93 | Computational models of memory consolidation and long-term synaptic plasticity during sleep. Neurobiology of Learning and Memory, 2019, 160, 32-47. | 1.9 | 7 |
| 94 | Capacity building: Architects of South American science. Nature, 2014, 510, 209-212. | 27.8 | 6 |
| 95 | Physiology and assessment as low-hanging fruit for education overhaul. Prospects, 2016, 46, 249-264. | 2.3 | 4 |
| 96 | Automated Speech Analysis for Psychosis Evaluation. Lecture Notes in Computer Science, 2016, , 31-39. | 1.3 | 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. | 3.1 | 4 |
| 98 | Educating to Build Bridges. Mind, Brain, and Education, 2013, 7, 101-103. | 1.9 | 3 |
| 99 | Rela o entre qualidade do sono e fun es cognitivas em pacientes com doen a de Parkinson. Universitas Scientiarum, 2013, 18, . | 0.4 | 2 |
| 100 | Can vocal conditioning trigger a semiotic ratchet in marmosets?. Frontiers in Psychology, 2015, 6, 1519. | 2.1 | 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 c rebro. Estudos Avancados, 2013, 27, 07-22. | 0.5 | 2 |
| 103 | Non-visual exploration of novel objects increases the levels of plasticity factors in the rat primary visual cortex. PeerJ, 2018, 6, e5678. | 2.0 | 1 |
| 104 | On Building Meaning: A Biologically-Inspired Experiment on Symbol-Based Communication. Advances in Experimental Medicine and Biology, 2010, 657, 77-93. | 1.6 | 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. | 2.8 | 0 |
| 107 | Sleep, Synaptic Plasticity, and Memory. , 2017, , 539-562. | | 0 |
| 108 | A protocol to examine the learning effects of "multisystem mapping"™ training combined with post-training sleep consolidation in beginning readers. STAR Protocols, 2021, 2, 100712. | 1.2 | 0 |

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|-----|---|-----|-----------|
| 109 | Nonsemantic word graphs of texts spanning $\hat{\approx}$ 4500 years, including pre-literate Amerindian oral narratives. Data in Brief, 2021, 38, 107296. | 1.0 | 0 |
| 110 | Neuronal Reverberation and the Consolidation of New Memories across the Wake-Sleep Cycle. , 2004, , 196-218. | | 0 |
| 111 | ExperiÃªncias mÃ¡sticas 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 |