

# Gustavo Deco

## List of Publications by Year in descending order

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Version: 2024-02-01

422  
papers

25,973  
citations

11608

70  
h-index

12910

131  
g-index

515  
all docs

515  
docs citations

515  
times ranked

15553  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Emerging concepts for the dynamical organization of resting-state activity in the brain. <i>Nature Reviews Neuroscience</i> , 2011, 12, 43-56.   | 4.9 | 1,497     |
| 2  | The Dynamic Brain: From Spiking Neurons to Neural Masses and Cortical Fields. <i>PLoS Computational Biology</i> , 2008, 4, e1000092.   | 1.5 | 832       |
| 3  | Key role of coupling, delay, and noise in resting brain fluctuations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10302-10307. | 3.3 | 681       |
| 4  | Ongoing Cortical Activity at Rest: Criticality, Multistability, and Ghost Attractors. <i>Journal of Neuroscience</i> , 2012, 32, 3366-3375.  | 1.7 | 605       |
| 5  | Can sliding-window correlations reveal dynamic functional connectivity in resting-state fMRI?. <i>NeuroImage</i> , 2016, 127, 242-256.   | 2.1 | 530       |
| 6  | Rethinking segregation and integration: contributions of whole-brain modelling. <i>Nature Reviews Neuroscience</i> , 2015, 16, 430-439.  | 4.9 | 483       |
| 7  | Resting-State Functional Connectivity Emerges from Structurally and Dynamically Shaped Slow Linear Fluctuations. <i>Journal of Neuroscience</i> , 2013, 33, 11239-11252.               | 1.7 | 476       |
| 8  | Role of local network oscillations in resting-state functional connectivity. <i>NeuroImage</i> , 2011, 57, 130-139.  | 2.1 | 467       |
| 9  | Functional connectivity dynamics: Modeling the switching behavior of the resting state. <i>NeuroImage</i> , 2015, 105, 525-535.  | 2.1 | 463       |
| 10 | The dynamics of resting fluctuations in the brain: metastability and its dynamical cortical core. <i>Scientific Reports</i> , 2017, 7, 3095.   | 1.6 | 356       |
| 11 | Great Expectations: Using Whole-Brain Computational Connectomics for Understanding Neuropsychiatric Disorders. <i>Neuron</i> , 2014, 84, 892-905.                                      | 3.8 | 345       |
| 12 | Computational models of schizophrenia and dopamine modulation in the prefrontal cortex. <i>Nature Reviews Neuroscience</i> , 2008, 9, 696-709.   | 4.9 | 333       |
| 13 | Resting brains never rest: computational insights into potential cognitive architectures. <i>Trends in Neurosciences</i> , 2013, 36, 268-274.  | 4.2 | 321       |
| 14 | Functional connectivity dynamically evolves on multiple time-scales over a static structural connectome: Models and mechanisms. <i>NeuroImage</i> , 2017, 160, 84-96.                  | 2.1 | 319       |
| 15 | Exploring the network dynamics underlying brain activity during rest. <i>Progress in Neurobiology</i> , 2014, 114, 102-131.  | 2.8 | 309       |
| 16 | How Local Excitation-Inhibition Ratio Impacts the Whole Brain Dynamics. <i>Journal of Neuroscience</i> , 2014, 34, 7886-7898.  | 1.7 | 303       |
| 17 | Human consciousness is supported by dynamic complex patterns of brain signal coordination. <i>Science Advances</i> , 2019, 5, eaat7603.  | 4.7 | 296       |
| 18 | Attention, short-term memory, and action selection: A unifying theory. <i>Progress in Neurobiology</i> , 2005, 76, 236-256.  | 2.8 | 293       |

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|----|--|-----|-----------|
| 19 | Exploring mechanisms of spontaneous functional connectivity in MEG: How delayed network interactions lead to structured amplitude envelopes of band-pass filtered oscillations. <i>NeuroImage</i> , 2014, 90, 423-435. | 2.1 | 287       |
| 20 | The Dynamical Balance of the Brain at Rest. <i>Neuroscientist</i> , 2011, 17, 107-123.   | 2.6 | 282       |
| 21 | A Neurodynamical cortical model of visual attention and invariant object recognition. <i>Vision Research</i> , 2004, 44, 621-642.  | 0.7 | 265       |
| 22 | Cognitive performance in healthy older adults relates to spontaneous switching between states of functional connectivity during rest. <i>Scientific Reports</i> , 2017, 7, 5135.                                       | 1.6 | 257       |
| 23 | Stochastic dynamics as a principle of brain function. <i>Progress in Neurobiology</i> , 2009, 88, 1-16.  | 2.8 | 248       |
| 24 | Resting-State Temporal Synchronization Networks Emerge from Connectivity Topology and Heterogeneity. <i>PLoS Computational Biology</i> , 2015, 11, e1004100.   | 1.5 | 216       |
| 25 | Neurodynamics of Biased Competition and Cooperation for Attention: A Model With Spiking Neurons. <i>Journal of Neurophysiology</i> , 2005, 94, 295-313.  | 0.9 | 215       |
| 26 | Inversion of a large-scale circuit model reveals a cortical hierarchy in the dynamic resting human brain. <i>Science Advances</i> , 2019, 5, eaat7854.   | 4.7 | 192       |
| 27 | An Information-Theoretic Approach to Neural Computing. <i>Perspectives in Neural Computing</i> , 1996, , .   | 0.1 | 188       |
| 28 | Metastability and Coherence: Extending the Communication through Coherence Hypothesis Using A Whole-Brain Computational Perspective. <i>Trends in Neurosciences</i> , 2016, 39, 125-135.                               | 4.2 | 187       |
| 29 | Dynamic functional connectivity reveals altered variability in functional connectivity among patients with major depressive disorder. <i>Human Brain Mapping</i> , 2016, 37, 2918-2930.                                | 1.9 | 186       |
| 30 | Attention and working memory: a dynamical model of neuronal activity in the prefrontal cortex. <i>European Journal of Neuroscience</i> , 2003, 18, 2374-2390.  | 1.2 | 176       |
| 31 | Neuronal Discharges and Gamma Oscillations Explicitly Reflect Visual Consciousness in the Lateral Prefrontal Cortex. <i>Neuron</i> , 2012, 74, 924-935.  | 3.8 | 176       |
| 32 | Awakening: Predicting external stimulation to force transitions between different brain states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18088-18097.       | 3.3 | 176       |
| 33 | Dynamic coupling of whole-brain neuronal and neurotransmitter systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9566-9576.                                  | 3.3 | 173       |
| 34 | Modeling the outcome of structural disconnection on resting-state functional connectivity. <i>NeuroImage</i> , 2012, 62, 1342-1353.  | 2.1 | 169       |
| 35 | Single or multiple frequency generators in on-going brain activity: A mechanistic whole-brain model of empirical MEG data. <i>NeuroImage</i> , 2017, 152, 538-550.   | 2.1 | 165       |
| 36 | Whole-Brain Multimodal Neuroimaging Model Using Serotonin Receptor Maps Explains Non-linear Functional Effects of LSD. <i>Current Biology</i> , 2018, 28, 3065-3074.e6.  | 1.8 | 159       |

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|----|--|-----|-----------|
| 37 | Oscillations, Phase-of-Firing Coding, and Spike Timing-Dependent Plasticity: An Efficient Learning Scheme. <i>Journal of Neuroscience</i> , 2009, 29, 13484-13493.                                       | 1.7 | 153       |
| 38 | Dynamical exploration of the repertoire of brain networks at rest is modulated by psilocybin. <i>NeuroImage</i> , 2019, 199, 127-142.  | 2.1 | 152       |
| 39 | Connectome-harmonic decomposition of human brain activity reveals dynamical repertoire re-organization under LSD. <i>Scientific Reports</i> , 2017, 7, 17661.  | 1.6 | 150       |
| 40 | Optimal Information Transfer in the Cortex through Synchronization. <i>PLoS Computational Biology</i> , 2010, 6, e1000934.   | 1.5 | 144       |
| 41 | Decision-making and Weber's law: a neurophysiological model. <i>European Journal of Neuroscience</i> , 2006, 24, 901-916.  | 1.2 | 143       |
| 42 | Theory and Simulation in Neuroscience. <i>Science</i> , 2012, 338, 60-65.  | 6.0 | 141       |
| 43 | Brain States and Transitions: Insights from Computational Neuroscience. <i>Cell Reports</i> , 2020, 32, 108128.  | 2.9 | 139       |
| 44 | Identification of Optimal Structural Connectivity Using Functional Connectivity and Neural Modeling. <i>Journal of Neuroscience</i> , 2014, 34, 7910-7916.   | 1.7 | 138       |
| 45 | A Dynamical Systems Hypothesis of Schizophrenia. <i>PLoS Computational Biology</i> , 2007, 3, e228.  | 1.5 | 137       |
| 46 | Estimation of Directed Effective Connectivity from fMRI Functional Connectivity Hints at Asymmetries of Cortical Connectome. <i>PLoS Computational Biology</i> , 2016, 12, e1004762.                     | 1.5 | 137       |
| 47 | Inferring multi-scale neural mechanisms with brain network modelling. <i>ELife</i> , 2018, 7, .  | 2.8 | 137       |
| 48 | Perception and self-organized instability. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 44.   | 1.2 | 133       |
| 49 | Brain mechanisms for perceptual and reward-related decision-making. <i>Progress in Neurobiology</i> , 2013, 103, 194-213.  | 2.8 | 133       |
| 50 | Neural Coding: Higher-Order Temporal Patterns in the Neurostatistics of Cell Assemblies. <i>Neural Computation</i> , 2000, 12, 2621-2653.  | 1.3 | 127       |
| 51 | Choice, difficulty, and confidence in the brain. <i>NeuroImage</i> , 2010, 53, 694-706.  | 2.1 | 127       |
| 52 | Coherent delta-band oscillations between cortical areas correlate with decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15085-15090. | 3.3 | 127       |
| 53 | Portraits of communication in neuronal networks. <i>Nature Reviews Neuroscience</i> , 2019, 20, 117-127.   | 4.9 | 126       |
| 54 | Stimulus-dependent variability and noise correlations in cortical MT neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13162-13167.           | 3.3 | 121       |

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|----|--|-----|-----------|
| 55 | Whole-Brain Neuronal Activity Displays Crackling Noise Dynamics. <i>Neuron</i> , 2018, 100, 1446-1459.e6.  | 3.8 | 118       |
| 56 | How anatomy shapes dynamics: a semi-analytical study of the brain at rest by a simple spin model. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 68.  | 1.2 | 116       |
| 57 | Rich club organization supports a diverse set of functional network configurations. <i>NeuroImage</i> , 2014, 96, 174-182.   | 2.1 | 115       |
| 58 | Statistical Independence and Novelty Detection with Information Preserving Nonlinear Maps. <i>Neural Computation</i> , 1996, 8, 260-269.   | 1.3 | 113       |
| 59 | “What” and “Where” in Visual Working Memory: A Computational Neurodynamical Perspective for Integrating fMRI and Single-Neuron Data. <i>Journal of Cognitive Neuroscience</i> , 2004, 16, 683-701.   | 1.1 | 113       |
| 60 | Two Strategies to Avoid Overfitting in Feedforward Networks. <i>Neural Networks</i> , 1997, 10, 505-516.   | 3.3 | 110       |
| 61 | Neural Network Mechanisms Underlying Stimulus Driven Variability Reduction. <i>PLoS Computational Biology</i> , 2012, 8, e1002395.   | 1.5 | 109       |
| 62 | Decision-Making, Errors, and Confidence in the Brain. <i>Journal of Neurophysiology</i> , 2010, 104, 2359-2374.  | 0.9 | 105       |
| 63 | Synaptic and Spiking Dynamics underlying Reward Reversal in the Orbitofrontal Cortex. <i>Cerebral Cortex</i> , 2004, 15, 15-30.  | 1.6 | 102       |
| 64 | Nonlinear higher-order statistical decorrelation by volume-conserving neural architectures. <i>Neural Networks</i> , 1995, 8, 525-535.   | 3.3 | 99        |
| 65 | The Rediscovery of Slowness: Exploring the Timing of Cognition. <i>Trends in Cognitive Sciences</i> , 2015, 19, 616-628.   | 4.0 | 98        |
| 66 | Neural Plasticity in Human Brain Connectivity: The Effects of Long Term Deep Brain Stimulation of the Subthalamic Nucleus in Parkinson’s Disease. <i>PLoS ONE</i> , 2014, 9, e86496.   | 1.1 | 95        |
| 67 | Understanding principles of integration and segregation using whole-brain computational connectomics: implications for neuropsychiatric disorders. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160283. | 1.6 | 95        |
| 68 | Large-scale Neural Model for Visual Attention: Integration of Experimental Single-cell and fMRI Data. <i>Cerebral Cortex</i> , 2002, 12, 339-348.  | 1.6 | 94        |
| 69 | Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , 2021, 12, 4237.   | 5.8 | 92        |
| 70 | Hierarchy of Information Processing in the Brain: A Novel “Intrinsic Ignition” Framework. <i>Neuron</i> , 2017, 94, 961-968.   | 3.8 | 91        |
| 71 | Increased Stability and Breakdown of Brain Effective Connectivity During Slow-Wave Sleep: Mechanistic Insights from Whole-Brain Computational Modelling. <i>Scientific Reports</i> , 2017, 7, 4634.  | 1.6 | 90        |
| 72 | Spontaneous cortical activity is transiently poised close to criticality. <i>PLoS Computational Biology</i> , 2017, 13, e1005543.  | 1.5 | 88        |

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|----|---|------|-----------|
| 73 | Functional complexity emerging from anatomical constraints in the brain: the significance of network modularity and rich-clubs. <i>Scientific Reports</i> , 2016, 6, 38424.         | 1.6  | 87        |
| 74 | Do Bilinguals Automatically Activate Their Native Language When They Are Not Using It?. <i>Cognitive Science</i> , 2017, 41, 1629-1644.   | 0.8  | 87        |
| 75 | Hippocampal Sharp-Wave Ripples Influence Selective Activation of the Default Mode Network. <i>Current Biology</i> , 2016, 26, 686-691.  | 1.8  | 86        |
| 76 | Spontaneous Brain Activity Predicts Learning Ability of Foreign Sounds. <i>Journal of Neuroscience</i> , 2013, 33, 9295-9305.   | 1.7  | 85        |
| 77 | Time-Resolved Resting-State Functional Magnetic Resonance Imaging Analysis: Current Status, Challenges, and New Directions. <i>Brain Connectivity</i> , 2017, 7, 465-481.           | 0.8  | 84        |
| 78 | Perturbation of whole-brain dynamics in silico reveals mechanistic differences between brain states. <i>NeuroImage</i> , 2018, 169, 46-56.  | 2.1  | 83        |
| 79 | Top-down selective visual attention: A neurodynamical approach. <i>Visual Cognition</i> , 2001, 8, 118-139.   | 0.9  | 82        |
| 80 | Bottom up modeling of the connectome: Linking structure and function in the resting brain and their changes in aging. <i>NeuroImage</i> , 2013, 80, 318-329.                        | 2.1  | 81        |
| 81 | Computational significance of transient dynamics in cortical networks. <i>European Journal of Neuroscience</i> , 2008, 27, 217-227.   | 1.2  | 80        |
| 82 | Neural Variability in Premotor Cortex Is Modulated by Trial History and Predicts Behavioral Performance. <i>Neuron</i> , 2013, 78, 249-255.   | 3.8  | 80        |
| 83 | Uncovering the underlying mechanisms and whole-brain dynamics of deep brain stimulation for Parkinson's disease. <i>Scientific Reports</i> , 2017, 7, 9882.                         | 1.6  | 79        |
| 84 | Decreased integration and information capacity in stroke measured by whole brain models of resting state activity. <i>Brain</i> , 2017, 140, 1068-1085.                             | 3.7  | 77        |
| 85 | Microbiota alterations in proline metabolism impact depression. <i>Cell Metabolism</i> , 2022, 34, 681-701.e10.   | 7.2  | 77        |
| 86 | Task-Driven Activity Reduces the Cortical Activity Space of the Brain: Experiment and Whole-Brain Modeling. <i>PLoS Computational Biology</i> , 2015, 11, e1004445.                 | 1.5  | 76        |
| 87 | Altered ability to access a clinically relevant control network in patients remitted from major depressive disorder. <i>Human Brain Mapping</i> , 2019, 40, 2771-2786.              | 1.9  | 76        |
| 88 | Primate Amygdala Neurons Simulate Decision Processes of Social Partners. <i>Cell</i> , 2019, 177, 986-998.e15.  | 13.5 | 75        |
| 89 | Ghost Attractors in Spontaneous Brain Activity: Recurrent Excursions Into Functionally-Relevant BOLD Phase-Locking States. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 20. | 1.2  | 75        |
| 90 | Attention "oscillations and neuropharmacology. <i>European Journal of Neuroscience</i> , 2009, 30, 347-354.   | 1.2  | 74        |

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|-----|---|-----|-----------|
| 91  | Harmonic Brain Modes: A Unifying Framework for Linking Space and Time in Brain Dynamics. <i>Neuroscientist</i> , 2018, 24, 277-293.   | 2.6 | 74        |
| 92  | The time course of selective visual attention: theory and experiments. <i>Vision Research</i> , 2002, 42, 2925-2945.  | 0.7 | 73        |
| 93  | A whole-brain computational modeling approach to explain the alterations in resting-state functional connectivity during progression of Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2017, 16, 343-354. | 1.4 | 73        |
| 94  | Resting-state fMRI correlations: From link-wise unreliability to whole brain stability. <i>NeuroImage</i> , 2017, 157, 250-262.   | 2.1 | 73        |
| 95  | Unsupervised Mutual Information Criterion for Elimination of Overtraining in Supervised Multilayer Networks. <i>Neural Computation</i> , 1995, 7, 86-107.   | 1.3 | 72        |
| 96  | Cholinergic control of cortical network interactions enables feedback-mediated attentional modulation. <i>European Journal of Neuroscience</i> , 2011, 34, 146-157.   | 1.2 | 71        |
| 97  | An attractor hypothesis of obsessive-compulsive disorder. <i>European Journal of Neuroscience</i> , 2008, 28, 782-793.  | 1.2 | 70        |
| 98  | Confidence-Related Decision Making. <i>Journal of Neurophysiology</i> , 2010, 104, 539-547.   | 0.9 | 70        |
| 99  | The Neuronal Basis of Attention: Rate versus Synchronization Modulation. <i>Journal of Neuroscience</i> , 2008, 28, 7679-7686.  | 1.7 | 69        |
| 100 | Gradual emergence of spontaneous correlated brain activity during fading of general anesthesia in rats: Evidences from fMRI and local field potentials. <i>NeuroImage</i> , 2015, 114, 185-198.               | 2.1 | 69        |
| 101 | Dynamical consequences of regional heterogeneity in the brain's transcriptional landscape. <i>Science Advances</i> , 2021, 7, .   | 4.7 | 69        |
| 102 | A Fluctuation-Driven Mechanism for Slow Decision Processes in Reverberant Networks. <i>PLoS ONE</i> , 2008, 3, e2534.   | 1.1 | 68        |
| 103 | Human brain connectivity: Clinical applications for clinical neurophysiology. <i>Clinical Neurophysiology</i> , 2020, 131, 1621-1651.   | 0.7 | 68        |
| 104 | A hierarchical neural system with attentional top-down enhancement of the spatial resolution for object recognition. <i>Vision Research</i> , 2000, 40, 2845-2859.  | 0.7 | 67        |
| 105 | Synaptic dynamics and decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7545-7549.   | 3.3 | 67        |
| 106 | mTOR-related synaptic pathology causes autism spectrum disorder-associated functional hyperconnectivity. <i>Nature Communications</i> , 2021, 12, 6084.   | 5.8 | 66        |
| 107 | Modeling Resting-State Functional Networks When the Cortex Falls Asleep: Local and Global Changes. <i>Cerebral Cortex</i> , 2014, 24, 3180-3194.  | 1.6 | 65        |
| 108 | Weber's Law in Decision Making: Integrating Behavioral Data in Humans with a Neurophysiological Model. <i>Journal of Neuroscience</i> , 2007, 27, 11192-11200.  | 1.7 | 63        |

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|-----|---|-----|-----------|
| 109 | The role of early visual cortex in visual integration: a neural model of recurrent interaction. <i>European Journal of Neuroscience</i> , 2004, 20, 1089-1100.                            | 1.2 | 62        |
| 110 | The encoding of alternatives in multiple-choice decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10308-10313.         | 3.3 | 62        |
| 111 | Multisensory contributions to the perception of vibrotactile events. <i>Behavioural Brain Research</i> , 2009, 196, 145-154.  | 1.2 | 62        |
| 112 | Turbulent-like Dynamics in the Human Brain. <i>Cell Reports</i> , 2020, 33, 108471.   | 2.9 | 62        |
| 113 | Resting-State Functional Connectivity Magnetic Resonance Imaging and Outcome After Acute Stroke. <i>Stroke</i> , 2018, 49, 2353-2360.   | 1.0 | 61        |
| 114 | Revisiting the global workspace orchestrating the hierarchical organization of the human brain. <i>Nature Human Behaviour</i> , 2021, 5, 497-511.   | 6.2 | 61        |
| 115 | Structural connectivity in schizophrenia and its impact on the dynamics of spontaneous functional networks. <i>Chaos</i> , 2013, 23, 046111.  | 1.0 | 60        |
| 116 | Metastability in Senescence. <i>Trends in Cognitive Sciences</i> , 2017, 21, 509-521.   | 4.0 | 60        |
| 117 | Effective connectivity inferred from fMRI transition dynamics during movie viewing points to a balanced reconfiguration of cortical interactions. <i>NeuroImage</i> , 2018, 180, 534-546. | 2.1 | 57        |
| 118 | A neurodynamical model of visual attention: feedback enhancement of spatial resolution in a hierarchical system. , 2001, 10, 231-253.   |     | 56        |
| 119 | Sequential Memory: A Putative Neural and Synaptic Dynamical Mechanism. <i>Journal of Cognitive Neuroscience</i> , 2005, 17, 294-307.  | 1.1 | 56        |
| 120 | Intra-cortical propagation of EEG alpha oscillations. <i>NeuroImage</i> , 2014, 103, 444-453.   | 2.1 | 56        |
| 121 | A unified model of spatial and object attention based on inter-cortical biased competition. <i>Neurocomputing</i> , 2002, 44-46, 775-781.   | 3.5 | 54        |
| 122 | Insights into Brain Architectures from the Homological Scaffolds of Functional Connectivity Networks. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 85.                            | 1.2 | 53        |
| 123 | Cortical rich club regions can organize state-dependent functional network formation by engaging in oscillatory behavior. <i>NeuroImage</i> , 2017, 146, 561-574.                         | 2.1 | 52        |
| 124 | Changes of Mind in an Attractor Network of Decision-Making. <i>PLoS Computational Biology</i> , 2011, 7, e1002086.  | 1.5 | 51        |
| 125 | A computational neuroscience approach to schizophrenia and its onset. <i>Neuroscience and Biobehavioral Reviews</i> , 2011, 35, 1644-1653.  | 2.9 | 50        |
| 126 | How delays matter in an oscillatory whole-brain spiking-neuron network model for MEG alpha-rhythms at rest. <i>NeuroImage</i> , 2014, 87, 383-394.  | 2.1 | 50        |



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|-----|---|-----|-----------|
| 127 | Network dynamics with BrainX3: a large-scale simulation of the human brain network with real-time interaction. <i>Frontiers in Neuroinformatics</i> , 2015, 9, 02.  | 1.3 | 48        |
| 128 | Modeling regional changes in dynamic stability during sleep and wakefulness. <i>NeuroImage</i> , 2020, 215, 116833.   | 2.1 | 48        |
| 129 | Sensory-motor cortices shape functional connectivity dynamics in the human brain. <i>Nature Communications</i> , 2021, 12, 6373.  | 5.8 | 48        |
| 130 | Using the Virtual Brain to Reveal the Role of Oscillations and Plasticity in Shaping Brain's Dynamical Landscape. <i>Brain Connectivity</i> , 2014, 4, 791-811.   | 0.8 | 47        |
| 131 | Novel Intrinsic Ignition Method Measuring Local-Global Integration Characterizes Wakefulness and Deep Sleep. <i>ENeuro</i> , 2017, 4, ENEURO.0106-17.2017.  | 0.9 | 47        |
| 132 | Interactions between higher and lower visual areas improve shape selectivity of higher level neurons—Explaining crowding phenomena. <i>Brain Research</i> , 2007, 1157, 167-176.  | 1.1 | 46        |
| 133 | Rare long-range cortical connections enhance human information processing. <i>Current Biology</i> , 2021, 31, 4436-4448.e5.   | 1.8 | 46        |
| 134 | Stochastic resonance in the mutual information between input and output spike trains of noisy central neurons. <i>Physica D: Nonlinear Phenomena</i> , 1998, 117, 276-282.  | 1.3 | 45        |
| 135 | Multi-stable perception balances stability and sensitivity. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 17.   | 1.2 | 45        |
| 136 | Brain songs framework used for discovering the relevant timescale of the human brain. <i>Nature Communications</i> , 2019, 10, 583.   | 5.8 | 45        |
| 137 | Perturbations in dynamical models of whole-brain activity dissociate between the level and stability of consciousness. <i>PLoS Computational Biology</i> , 2021, 17, e1009139.  | 1.5 | 45        |
| 138 | Psychedelic resting-state neuroimaging: A review and perspective on balancing replication and novel analyses. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 138, 104689.  | 2.9 | 45        |
| 139 | Effective Reduced Diffusion-Models: A Data Driven Approach to the Analysis of Neuronal Dynamics. <i>PLoS Computational Biology</i> , 2009, 5, e1000587.   | 1.5 | 44        |
| 140 | Role of white-matter pathways in coordinating alpha oscillations in resting visual cortex. <i>NeuroImage</i> , 2015, 106, 328-339.  | 2.1 | 44        |
| 141 | Increased methylation at an unexplored glucocorticoid responsive element within exon 1D of NR3C1 gene is related to anxious-depressive disorders and decreased hippocampal connectivity. <i>European Neuropsychopharmacology</i> , 2018, 28, 579-588. | 0.3 | 44        |
| 142 | The role of fluctuations in perception. <i>Trends in Neurosciences</i> , 2008, 31, 591-598.   | 4.2 | 43        |
| 143 | The human orbitofrontal cortex, vmPFC, and anterior cingulate cortex effective connectome: emotion, memory, and action. <i>Cerebral Cortex</i> , 2022, 33, 330-356.   | 1.6 | 43        |
| 144 | Effective Connectivity in Depression. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 187-197.   | 1.1 | 42        |

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|-----|---|-----|-----------|
| 145 | Brain simulation as a cloud service: The Virtual Brain on EBRAINS. <i>NeuroImage</i> , 2022, 251, 118973.   | 2.1 | 42        |
| 146 | Double electron capture of He <sup>2+</sup> from He at high velocity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, L133-L138.   | 0.6 | 41        |
| 147 | The most relevant human brain regions for functional connectivity: Evidence for a dynamical workspace of binding nodes from whole-brain computational modelling. <i>NeuroImage</i> , 2017, 146, 197-210.                  | 2.1 | 41        |
| 148 | Common neural signatures of psychedelics: Frequency-specific energy changes and repertoire expansion revealed using connectome-harmonic decomposition. <i>Progress in Brain Research</i> , 2018, 242, 97-120.             | 0.9 | 41        |
| 149 | Extracting orthogonal subject- and condition-specific signatures from fMRI data using whole-brain effective connectivity. <i>NeuroImage</i> , 2018, 178, 238-254.   | 2.1 | 41        |
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