

# Gustavo Deco

## List of Publications by Year in descending order

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Version: 2024-02-01

422  
papers

25,973  
citations

11651

70  
h-index

12946

131  
g-index

515  
all docs

515  
docs citations

515  
times ranked

15553  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Temporal irreversibility of neural dynamics as a signature of consciousness. <i>Cerebral Cortex</i> , 2023, 33, 1856-1865.  | 2.9  | 14        |
| 2  | The human posterior parietal cortex: effective connectome, and its relation to function. <i>Cerebral Cortex</i> , 2023, 33, 3142-3170.                              | 2.9  | 21        |
| 3  | Multiple cortical visual streams in humans. <i>Cerebral Cortex</i> , 2023, 33, 3319-3349.   | 2.9  | 23        |
| 4  | Bridging the gap between single receptor type activity and whole-brain dynamics. <i>FEBS Journal</i> , 2022, 289, 2067-2084.  | 4.7  | 10        |
| 5  | Macroscopic Quantities of Collective Brain Activity during Wakefulness and Anesthesia. <i>Cerebral Cortex</i> , 2022, 32, 298-311.                                  | 2.9  | 6         |
| 6  | Whole-brain modeling to predict optimal deep brain stimulation targeting. , 2022, , 543-559.  |      | 2         |
| 7  | The effective connectivity of the human hippocampal memory system. <i>Cerebral Cortex</i> , 2022, 32, 3706-3725.  | 2.9  | 28        |
| 8  | Dynamic primitives of brain network interaction. <i>NeuroImage</i> , 2022, 250, 118928.   | 4.2  | 18        |
| 9  | Toward noninvasive brain stimulation 2.0 in Alzheimer's disease. <i>Ageing Research Reviews</i> , 2022, 75, 101555.   | 10.9 | 37        |
| 10 | The human orbitofrontal cortex, vmPFC, and anterior cingulate cortex effective connectome: emotion, memory, and action. <i>Cerebral Cortex</i> , 2022, 33, 330-356. | 2.9  | 43        |
| 11 | Brain simulation as a cloud service: The Virtual Brain on EBRAINS. <i>NeuroImage</i> , 2022, 251, 118973.   | 4.2  | 42        |
| 12 | Functional network antagonism and consciousness. <i>Network Neuroscience</i> , 2022, 6, 998-1009.   | 2.6  | 4         |
| 13 | Large-scale societal dynamics are reflected in human mood and brain. <i>Scientific Reports</i> , 2022, 12, 4646.  | 3.3  | 1         |
| 14 | The effect of external stimulation on functional networks in the aging healthy human brain. <i>Cerebral Cortex</i> , 2022, 33, 235-245.                             | 2.9  | 8         |
| 15 | On the intersection between data quality and dynamical modelling of large-scale fMRI signals. <i>NeuroImage</i> , 2022, 256, 119051.                                | 4.2  | 11        |
| 16 | Effects of classic psychedelic drugs on turbulent signatures in brain dynamics. <i>Network Neuroscience</i> , 2022, 6, 1104-1124.                                   | 2.6  | 10        |
| 17 | Differences in the critical dynamics underlying the human and fruit-fly connectome. <i>Physical Review Research</i> , 2022, 4, .                                    | 3.6  | 4         |
| 18 | Microbiota alterations in proline metabolism impact depression. <i>Cell Metabolism</i> , 2022, 34, 681-701.e10.   | 16.2 | 77        |

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|----|--|------|-----------|
| 19 | Meditation-induced effects on whole-brain structural and effective connectivity. <i>Brain Structure and Function</i> , 2022, 227, 2087-2102.   | 2.3  | 3         |
| 20 | Psychedelic resting-state neuroimaging: A review and perspective on balancing replication and novel analyses. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 138, 104689.           | 6.1  | 45        |
| 21 | Whole-brain dynamics differentiate among cisgender and transgender individuals. <i>Human Brain Mapping</i> , 2022, 43, 4103-4115.  | 3.6  | 6         |
| 22 | Understanding brain states across spacetime informed by whole-brain modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, . | 3.4  | 19        |
| 23 | Edge-centric analysis of stroke patients: An alternative approach for biomarkers of lesion recovery. <i>NeuroImage: Clinical</i> , 2022, 35, 103055.                                       | 2.7  | 15        |
| 24 | The human language effective connectome. <i>NeuroImage</i> , 2022, 258, 119352.  | 4.2  | 34        |
| 25 | The INSIDEOUT framework provides precise signatures of the balance of intrinsic and extrinsic dynamics in brain states. <i>Communications Biology</i> , 2022, 5, .                         | 4.4  | 23        |
| 26 | Spontaneous Activity, <i>Models of.</i> , 2022, , 3289-3293.   |      | 0         |
| 27 | Multiscale Brain Connectivity. , 2022, , 2105-2107.  |      | 0         |
| 28 | Unifying turbulent dynamics framework distinguishes different brain states. <i>Communications Biology</i> , 2022, 5, .   | 4.4  | 20        |
| 29 | Metastable oscillatory modes emerge from synchronization in the brain spacetime connectome. <i>Communications Physics</i> , 2022, 5, .   | 5.3  | 37        |
| 30 | Signature of consciousness in brain-wide synchronization patterns of monkey and human fMRI signals. <i>NeuroImage</i> , 2021, 226, 117470.   | 4.2  | 33        |
| 31 | Whole-Brain Dynamics in Aging: Disruptions in Functional Connectivity and the Role of the Rich Club. <i>Cerebral Cortex</i> , 2021, 31, 2466-2481.   | 2.9  | 29        |
| 32 | Hierarchical disruption in the cortex of anesthetized monkeys as a new signature of consciousness loss. <i>NeuroImage</i> , 2021, 227, 117618.   | 4.2  | 18        |
| 33 | Revisiting the global workspace orchestrating the hierarchical organization of the human brain. <i>Nature Human Behaviour</i> , 2021, 5, 497-511.  | 12.0 | 61        |
| 34 | Increased brain atrophy and lesion load is associated with stronger lower alpha MEG power in multiple sclerosis patients. <i>NeuroImage: Clinical</i> , 2021, 30, 102632.                  | 2.7  | 6         |
| 35 | Noise-driven multistability vs deterministic chaos in phenomenological semi-empirical models of whole-brain activity. <i>Chaos</i> , 2021, 31, 023127.                                     | 2.5  | 16        |
| 36 | Ephaptic coupling in white matter fibre bundles modulates axonal transmission delays. <i>PLoS Computational Biology</i> , 2021, 17, e1007858.  | 3.2  | 17        |

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|----|--|------|-----------|
| 37 | The phase of Theta oscillations modulates successful memory formation at encoding. <i>Neuropsychologia</i> , 2021, 154, 107775.  | 1.6  | 9         |
| 38 | Increased sensitivity to strong perturbations in a whole-brain model of LSD. <i>NeuroImage</i> , 2021, 230, 117809.  | 4.2  | 20        |
| 39 | Multiscale dynamic mean field (MDMF) model relates resting-state brain dynamics with local cortical excitatory–inhibitory neurotransmitter homeostasis. <i>Network Neuroscience</i> , 2021, 5, 1-26. | 2.6  | 17        |
| 40 | Brain Connectivity Studies on Structure-Function Relationships: A Short Survey with an Emphasis on Machine Learning. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-31.          | 1.7  | 9         |
| 41 | Leonardo da Vinci and the search for order in neuroscience. <i>Current Biology</i> , 2021, 31, R704-R709.  | 3.9  | 9         |
| 42 | Circuit mechanisms for the chemical modulation of cortex-wide network interactions and behavioral variability. <i>Science Advances</i> , 2021, 7, .  | 10.3 | 31        |
| 43 | Decoding brain states on the intrinsic manifold of human brain dynamics across wakefulness and sleep. <i>Communications Biology</i> , 2021, 4, 854.  | 4.4  | 23        |
| 44 | Dynamical consequences of regional heterogeneity in the brain’s transcriptional landscape. <i>Science Advances</i> , 2021, 7, .  | 10.3 | 69        |
| 45 | Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , 2021, 12, 4237.   | 12.8 | 92        |
| 46 | Perturbations in dynamical models of whole-brain activity dissociate between the level and stability of consciousness. <i>PLoS Computational Biology</i> , 2021, 17, e1009139.                       | 3.2  | 45        |
| 47 | Nonequilibrium brain dynamics as a signature of consciousness. <i>Physical Review E</i> , 2021, 104, 014411.   | 2.1  | 29        |
| 48 | Classification of Complex Emotions Using EEG and Virtual Environment: Proof of Concept and Therapeutic Implication. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 711279.                       | 2.0  | 2         |
| 49 | Functional harmonics reveal multi-dimensional basis functions underlying cortical organization. <i>Cell Reports</i> , 2021, 36, 109554.  | 6.4  | 24        |
| 50 | Rare long-range cortical connections enhance human information processing. <i>Current Biology</i> , 2021, 31, 4436-4448.e5.  | 3.9  | 46        |
| 51 | Loss of consciousness reduces the stability of brain hubs and the heterogeneity of brain dynamics. <i>Communications Biology</i> , 2021, 4, 1037.  | 4.4  | 40        |
| 52 | The effect of noise on the synchronization dynamics of the Kuramoto model on a large human connectome graph. <i>Neurocomputing</i> , 2021, 461, 696-704.   | 5.9  | 9         |
| 53 | Effective connectivity extracts clinically relevant prognostic information from resting state activity in stroke. <i>Brain Communications</i> , 2021, 3, fcab233.                                    | 3.3  | 15        |
| 54 | Revealing the Relevant Spatiotemporal Scale Underlying Whole-Brain Dynamics. <i>Frontiers in Neuroscience</i> , 2021, 15, 715861.  | 2.8  | 8         |

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|----|--|------|-----------|
| 55 | mTOR-related synaptic pathology causes autism spectrum disorder-associated functional hyperconnectivity. <i>Nature Communications</i> , 2021, 12, 6084.                                    | 12.8 | 66        |
| 56 | Sensory-motor cortices shape functional connectivity dynamics in the human brain. <i>Nature Communications</i> , 2021, 12, 6373.   | 12.8 | 48        |
| 57 | The Menstrual Cycle Modulates Whole-Brain Turbulent Dynamics. <i>Frontiers in Neuroscience</i> , 2021, 15, 753820.   | 2.8  | 21        |
| 58 | Harmonic waves as the fundamental principle underlying temporo-spatial dynamics of brain and mind. <i>Physics of Life Reviews</i> , 2020, 33, 67-69.                                       | 2.8  | 1         |
| 59 | Breakdown of Whole-brain Dynamics in Preterm-born Children. <i>Cerebral Cortex</i> , 2020, 30, 1159-1170.  | 2.9  | 11        |
| 60 | Uncovering the spatiotemporal scales of common neuro-mental constructs. <i>Physics of Life Reviews</i> , 2020, 33, 64-66.  | 2.8  | 4         |
| 61 | Effective connectivity in autism. <i>Autism Research</i> , 2020, 13, 32-44.  | 3.8  | 34        |
| 62 | Low entropy map of brain oscillatory activity identifies spatially localized events: A new method for automated epilepsy focus prediction. <i>NeuroImage</i> , 2020, 208, 116410.          | 4.2  | 8         |
| 63 | Model-based whole-brain effective connectivity to study distributed cognition in health and disease. <i>Network Neuroscience</i> , 2020, 4, 338-373.                                       | 2.6  | 40        |
| 64 | Brain States and Transitions: Insights from Computational Neuroscience. <i>Cell Reports</i> , 2020, 32, 108128.  | 6.4  | 139       |
| 65 | The Dynamics of Functional Brain Networks Associated With Depressive Symptoms in a Nonclinical Sample. <i>Frontiers in Neural Circuits</i> , 2020, 14, 570583.                             | 2.8  | 34        |
| 66 | Generative Embeddings of Brain Collective Dynamics Using Variational Autoencoders. <i>Physical Review Letters</i> , 2020, 125, 238101.   | 7.8  | 26        |
| 67 | Turbulent-like Dynamics in the Human Brain. <i>Cell Reports</i> , 2020, 33, 108471.  | 6.4  | 62        |
| 68 | The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. <i>Mechanisms of Ageing and Development</i> , 2020, 189, 111257.                       | 4.6  | 18        |
| 69 | Lifespan associated global patterns of coherent neural communication. <i>NeuroImage</i> , 2020, 216, 116824.   | 4.2  | 27        |
| 70 | Reduced spatiotemporal brain dynamics are associated with increased depressive symptoms after a relationship breakup. <i>NeuroImage: Clinical</i> , 2020, 27, 102299.                      | 2.7  | 16        |
| 71 | Editorial: The Embodied Brain: Computational Mechanisms of Integrated Sensorimotor Interactions With a Dynamic Environment. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 53. | 2.1  | 1         |
| 72 | Propagation of BOLD Activity Reveals Task-dependent Directed Interactions Across Human Visual Cortex. <i>Cerebral Cortex</i> , 2020, 30, 5899-5914.  | 2.9  | 6         |

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|----|--|------|-----------|
| 73 | Data augmentation based on dynamical systems for the classification of brain states. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110069.  | 5.1  | 14        |
| 74 | 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.                            | 7.1  | 173       |
| 75 | Beyond the disconnectivity hypothesis of schizophrenia. <i>Cerebral Cortex</i> , 2020, 30, 1213-1233.  | 2.9  | 27        |
| 76 | Ghost Attractors in Spontaneous Brain Activity: Recurrent Excursions Into Functionally-Relevant BOLD Phase-Locking States. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 20.                              | 2.5  | 75        |
| 77 | Human brain connectivity: Clinical applications for clinical neurophysiology. <i>Clinical Neurophysiology</i> , 2020, 131, 1621-1651.  | 1.5  | 68        |
| 78 | Modeling regional changes in dynamic stability during sleep and wakefulness. <i>NeuroImage</i> , 2020, 215, 116833.  | 4.2  | 48        |
| 79 | Cortical state transitions and stimulus response evolve along stiff and sloppy parameter dimensions, respectively. <i>ELife</i> , 2020, 9, .   | 6.0  | 12        |
| 80 | Characterizing the Dynamical Complexity Underlying Meditation. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 27.  | 2.5  | 31        |
| 81 | Network analysis of whole-brain fMRI dynamics: A new framework based on dynamic communicability. <i>NeuroImage</i> , 2019, 201, 116007.  | 4.2  | 36        |
| 82 | 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. | 7.1  | 176       |
| 83 | Disrupted brain structural connectivity in Pediatric Bipolar Disorder with psychosis. <i>Scientific Reports</i> , 2019, 9, 13638.  | 3.3  | 22        |
| 84 | Brain songs framework used for discovering the relevant timescale of the human brain. <i>Nature Communications</i> , 2019, 10, 583.  | 12.8 | 45        |
| 85 | Dynamical exploration of the repertoire of brain networks at rest is modulated by psilocybin. <i>NeuroImage</i> , 2019, 199, 127-142.  | 4.2  | 152       |
| 86 | A new computational approach to estimate whole-brain effective connectivity from functional and structural MRI, applied to language development. <i>Scientific Reports</i> , 2019, 9, 8479.                      | 3.3  | 16        |
| 87 | Reliable local dynamics in the brain across sessions are revealed by whole-brain modeling of resting state activity. <i>Human Brain Mapping</i> , 2019, 40, 2967-2980.   | 3.6  | 26        |
| 88 | Neural mechanisms of vibrotactile categorization. <i>Human Brain Mapping</i> , 2019, 40, 3078-3090.  | 3.6  | 11        |
| 89 | 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.   | 3.6  | 76        |
| 90 | Primate Amygdala Neurons Simulate Decision Processes of Social Partners. <i>Cell</i> , 2019, 177, 986-998.e15.   | 28.9 | 75        |

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|-----|---|------|-----------|
| 91  | Feed-forward information and zero-lag synchronization in the sensory thalamocortical circuit are modulated during stimulus perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7513-7522. | 7.1  | 24        |
| 92  | Human consciousness is supported by dynamic complex patterns of brain signal coordination. <i>Science Advances</i> , 2019, 5, eaat7603.   | 10.3 | 296       |
| 93  | Does Bilingualism Alter Lexical Structure? Response to Oppenheim, Wu, and Thierry (2018). <i>Cognitive Science</i> , 2019, 43, e12707.  | 1.7  | 7         |
| 94  | Whole-brain modeling of neuroimaging data. , 2019, , 139-143.   |      | 1         |
| 95  | Inversion of a large-scale circuit model reveals a cortical hierarchy in the dynamic resting human brain. <i>Science Advances</i> , 2019, 5, eaat7854.  | 10.3 | 192       |
| 96  | Portraits of communication in neuronal networks. <i>Nature Reviews Neuroscience</i> , 2019, 20, 117-127.  | 10.2 | 126       |
| 97  | Traces of statistical learning in the brain's functional connectivity after artificial language exposure. <i>Neuropsychologia</i> , 2019, 124, 246-253.   | 1.6  | 0         |
| 98  | Distinct modes of functional connectivity induced by movie-watching. <i>NeuroImage</i> , 2019, 184, 335-348.  | 4.2  | 23        |
| 99  | Resting state dynamics meets anatomical structure: Temporal multiple kernel learning (tmKL) model. <i>NeuroImage</i> , 2019, 184, 609-620.  | 4.2  | 19        |
| 100 | Playing at the Edge of Criticality: Expanded Whole-Brain Repertoire of Connectome-Harmonics. <i>Springer Series on Bio- and Neurosystems</i> , 2019, , 27-45.   | 0.2  | 7         |
| 101 | Imaging Connectomics and the Understanding of Brain Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1192, 139-158.   | 1.6  | 0         |
| 102 | Scale-freeness or partial synchronization in neural mass phase oscillator networks: Pick one of two?. <i>NeuroImage</i> , 2018, 180, 428-441.   | 4.2  | 13        |
| 103 | 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. | 0.7  | 44        |
| 104 | The dynamics of human cognition: Increasing global integration coupled with decreasing segregation found using iEEG. <i>NeuroImage</i> , 2018, 172, 492-505.  | 4.2  | 16        |
| 105 | Computational Models of Dysconnectivity in Large-Scale Resting-State Networks. , 2018, , 87-116.  |      | 2         |
| 106 | Stereotypical modulations in dynamic functional connectivity explained by changes in BOLD variance. <i>NeuroImage</i> , 2018, 171, 40-54.   | 4.2  | 14        |
| 107 | Distinct criticality of phase and amplitude dynamics in the resting brain. <i>NeuroImage</i> , 2018, 180, 442-447.  | 4.2  | 30        |
| 108 | Linking Entropy at Rest with the Underlying Structural Connectivity in the Healthy and Lesioned Brain. <i>Cerebral Cortex</i> , 2018, 28, 2948-2958.  | 2.9  | 31        |

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|-----|--|-----|-----------|
| 109 | Effective Connectivity in Depression. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 187-197.  | 1.5 | 42        |
| 110 | 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.  | 4.2 | 57        |
| 111 | Harmonic Brain Modes: A Unifying Framework for Linking Space and Time in Brain Dynamics. <i>Neuroscientist</i> , 2018, 24, 277-293.  | 3.5 | 74        |
| 112 | Task-related effective connectivity reveals that the cortical rich club gates cortex-wide communication. <i>Human Brain Mapping</i> , 2018, 39, 1246-1262.   | 3.6 | 31        |
| 113 | Perturbation of whole-brain dynamics in silico reveals mechanistic differences between brain states. <i>NeuroImage</i> , 2018, 169, 46-56.   | 4.2 | 83        |
| 114 | Whole-Brain Neuronal Activity Displays Crackling Noise Dynamics. <i>Neuron</i> , 2018, 100, 1446-1459.e6.  | 8.1 | 118       |
| 115 | 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.  | 3.9 | 159       |
| 116 | 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.  | 1.4 | 41        |
| 117 | Resting-State Functional Connectivity Magnetic Resonance Imaging and Outcome After Acute Stroke. <i>Stroke</i> , 2018, 49, 2353-2360.  | 2.0 | 61        |
| 118 | Extracting orthogonal subject- and condition-specific signatures from fMRI data using whole-brain effective connectivity. <i>NeuroImage</i> , 2018, 178, 238-254.  | 4.2 | 41        |
| 119 | Inferring multi-scale neural mechanisms with brain network modelling. <i>ELife</i> , 2018, 7, .  | 6.0 | 137       |
| 120 | Degenerate time-dependent network dynamics anticipate seizures in human epileptic brain. <i>PLoS Biology</i> , 2018, 16, e2002580.   | 5.6 | 13        |
| 121 | Source-reconstruction of the sensorimotor network from resting-state macaque electrocorticography. <i>NeuroImage</i> , 2018, 181, 347-358.   | 4.2 | 9         |
| 122 | Detection of recurrent activation patterns across focal seizures: Application to seizure onset zone identification. <i>Clinical Neurophysiology</i> , 2017, 128, 977-985.  | 1.5 | 14        |
| 123 | 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. | 3.4 | 95        |
| 124 | Metastability in Senescence. <i>Trends in Cognitive Sciences</i> , 2017, 21, 509-521.  | 7.8 | 60        |
| 125 | Decreased integration and information capacity in stroke measured by whole brain models of resting state activity. <i>Brain</i> , 2017, 140, 1068-1085.  | 7.6 | 77        |
| 126 | Hierarchy of Information Processing in the Brain: A Novel "Intrinsic Ignition"™ Framework. <i>Neuron</i> , 2017, 94, 961-968.  | 8.1 | 91        |



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|-----|---|-----|-----------|
| 127 | Functional connectivity dynamically evolves on multiple time-scales over a static structural connectome: Models and mechanisms. <i>NeuroImage</i> , 2017, 160, 84-96.   | 4.2 | 319       |
| 128 | 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.  | 4.2 | 165       |
| 129 | Effect of Field Spread on Resting-State Magneto Encephalography Functional Network Analysis: A Computational Modeling Study. <i>Brain Connectivity</i> , 2017, 7, 541-557.                                    | 1.7 | 12        |
| 130 | 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. | 2.7 | 73        |
| 131 | Uncovering the underlying mechanisms and whole-brain dynamics of deep brain stimulation for Parkinson's disease. <i>Scientific Reports</i> , 2017, 7, 9882.   | 3.3 | 79        |
| 132 | Time-Resolved Resting-State Functional Magnetic Resonance Imaging Analysis: Current Status, Challenges, and New Directions. <i>Brain Connectivity</i> , 2017, 7, 465-481.                                     | 1.7 | 84        |
| 133 | Resting state networks in empirical and simulated dynamic functional connectivity. <i>NeuroImage</i> , 2017, 159, 388-402.  | 4.2 | 33        |
| 134 | The dynamics of resting fluctuations in the brain: metastability and its dynamical cortical core. <i>Scientific Reports</i> , 2017, 7, 3095.  | 3.3 | 356       |
| 135 | Cognitive performance in healthy older adults relates to spontaneous switching between states of functional connectivity during rest. <i>Scientific Reports</i> , 2017, 7, 5135.                              | 3.3 | 257       |
| 136 | Visual stimulation quenches global alpha range activity in awake primate V4: a case study. <i>Neurophotonics</i> , 2017, 4, 031222.   | 3.3 | 1         |
| 137 | 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.           | 3.3 | 90        |
| 138 | Resting-state fMRI correlations: From link-wise unreliability to whole brain stability. <i>NeuroImage</i> , 2017, 157, 250-262.   | 4.2 | 73        |
| 139 | Do Bilinguals Automatically Activate Their Native Language When They Are Not Using It?. <i>Cognitive Science</i> , 2017, 41, 1629-1644.   | 1.7 | 87        |
| 140 | Cortical rich club regions can organize state-dependent functional network formation by engaging in oscillatory behavior. <i>NeuroImage</i> , 2017, 146, 561-574.   | 4.2 | 52        |
| 141 | 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.      | 4.2 | 41        |
| 142 | Neural Plasticity in Human Brain Connectivity. , 2017, , 527-546.   |     | 0         |
| 143 | Connectome-harmonic decomposition of human brain activity reveals dynamical repertoire re-organization under LSD. <i>Scientific Reports</i> , 2017, 7, 17661.   | 3.3 | 150       |
| 144 | Reply: Defining a functional network homeostasis after stroke: EEG-based approach is complementary to functional MRI. <i>Brain</i> , 2017, 140, e72-e72.  | 7.6 | 1         |

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|-----|---|-----|-----------|
| 145 | Linear distributed source modeling of local field potentials recorded with intra-cortical electrode arrays. PLoS ONE, 2017, 12, e0187490.                                       | 2.5 | 4         |
| 146 | Multiple Choice Neurodynamical Model of the Uncertain Option Task. PLoS Computational Biology, 2017, 13, e1005250.  | 3.2 | 4         |
| 147 | 26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. BMC Neuroscience, 2017, 18, .  | 1.9 | 7         |
| 148 | Editorial: Metastable Dynamics of Neural Ensembles. Frontiers in Systems Neuroscience, 2017, 11, 99.  | 2.5 | 9         |
| 149 | Spontaneous cortical activity is transiently poised close to criticality. PLoS Computational Biology, 2017, 13, e1005543.   | 3.2 | 88        |
| 150 | Novel Intrinsic Ignition Method Measuring Local-Global Integration Characterizes Wakefulness and Deep Sleep. ENeuro, 2017, 4, ENEURO.0106-17.2017.                              | 1.9 | 47        |
| 151 | Discrepancies between Multi-Electrode LFP and CSD Phase-Patterns: A Forward Modeling Study. Frontiers in Neural Circuits, 2016, 10, 51.   | 2.8 | 20        |
| 152 | Insights into Brain Architectures from the Homological Scaffolds of Functional Connectivity Networks. Frontiers in Systems Neuroscience, 2016, 10, 85.                          | 2.5 | 53        |
| 153 | Estimation of Directed Effective Connectivity from fMRI Functional Connectivity Hints at Asymmetries of Cortical Connectome. PLoS Computational Biology, 2016, 12, e1004762.    | 3.2 | 137       |
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