

# Viktor K Jirsa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266  
papers

13,082  
citations

59  
h-index

109  
g-index

315  
ext. papers

16,889  
ext. citations

4.7  
avg, IF

6.96  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 266 | A unified physiological framework of transitions between seizures, sustained ictal activity and depolarization block at the single neuron level.. <i>Journal of Computational Neuroscience</i> , <b>2022</b> , 50, 33                                 | 1.4 | 1         |
| 265 | Entropy, free energy, symmetry and dynamics in the brain. <i>Journal of Physics Complexity</i> , <b>2022</b> , 3, 015007  | 1.8 | 3         |
| 264 | Brain simulation as a cloud service: The Virtual Brain on EBRAINS.. <i>NeuroImage</i> , <b>2022</b> , 118973  | 7.9 | 4         |
| 263 | Dynamic Oscillations Evoked by Subcallosal Cingulate Deep Brain Stimulation.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 768355   | 5.1 | 0         |
| 262 | Towards an efficient validation of dynamical whole-brain models.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4331  | 4.9 | 1         |
| 261 | The Virtual Brain (TVB): Simulation Environment for Large-Scale Brain Networks <b>2022</b> , 3397-3407  |     |           |
| 260 | Synaptic Connectivity in Neural Population Models <b>2022</b> , 3375-3377   |     |           |
| 259 | Propagator, Axonal <b>2022</b> , 2893-2897  |     |           |
| 258 | High-resolution Virtual Brain Modeling Personalizes Deep Brain Stimulation for Treatment-Resistant Depression: Spatiotemporal Response Characteristics Following Stimulation of Neural Fiber Pathways.. <i>NeuroImage</i> , <b>2021</b> , 249, 118848 | 7.9 | 0         |
| 257 | The Virtual Brain (TVB): Simulation Environment for Large-Scale Brain Networks <b>2021</b> , 1-10   |     | 1         |
| 256 | Pathologically reduced neural flexibility recovers during psychotherapy of OCD patients. <i>NeuroImage: Clinical</i> , <b>2021</b> , 32, 102844   | 5.3 | 2         |
| 255 | Computational modeling of seizure spread on a cortical surface. <i>Journal of Computational Neuroscience</i> , <b>2021</b> , 1  | 1.4 | 2         |
| 254 | Identifying spatio-temporal seizure propagation patterns in epilepsy using Bayesian inference. <i>Communications Biology</i> , <b>2021</b> , 4, 1244  | 6.7 | 1         |
| 253 | Say What Was Not Said. <i>ENeuro</i> , <b>2021</b> , 8,   | 3.9 | 2         |
| 252 | Wheels Within Wheels: Theory and Practice of Epileptic Networks. <i>Epilepsy Currents</i> , <b>2021</b> , 15357597211035663   |     |           |
| 251 | Virtual Connectomic Datasets in Alzheimer's Disease and Aging Using Whole-Brain Network Dynamics Modelling. <i>ENeuro</i> , <b>2021</b> , 8,  | 3.9 | 2         |
| 250 | Orientation of Temporal Interference for Non-invasive Deep Brain Stimulation in Epilepsy. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 633988   | 5.1 | 3         |

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| 249 | The structural connectome constrains fast brain dynamics. <i>ELife</i> , <b>2021</b> , 10,  | 8.9 | 2  |
| 248 | VEP atlas: An anatomic and functional human brain atlas dedicated to epilepsy patients. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 348, 108983  | 3   | 5  |
| 247 | Evidence for spreading seizure as a cause of theta-alpha activity electrographic pattern in stereo-EEG seizure recordings. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008731   | 5   | 3  |
| 246 | Data-driven method to infer the seizure propagation patterns in an epileptic brain from intracranial electroencephalography. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008689   | 5   | 7  |
| 245 | On the influence of prior information evaluated by fully Bayesian criteria in a personalized whole-brain model of epilepsy spread. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1009129                                   | 5   | 2  |
| 244 | Modeling seizures: From single neurons to networks. <i>Seizure: the Journal of the British Epilepsy Association</i> , <b>2021</b> , 90, 4-8   | 3.2 | 2  |
| 243 | Patient-Specific Network Connectivity Combined With a Next Generation Neural Mass Model to Test Clinical Hypothesis of Seizure Propagation. <i>Frontiers in Systems Neuroscience</i> , <b>2021</b> , 15, 675272                     | 3.5 | 1  |
| 242 | Neuronal Cascades Shape Whole-Brain Functional Dynamics at Rest. <i>ENeuro</i> , <b>2021</b> , 8,   | 3.9 | 2  |
| 241 | Clinical connectome fingerprints of cognitive decline. <i>NeuroImage</i> , <b>2021</b> , 238, 118253  | 7.9 | 0  |
| 240 | Network Modulation in Neuropsychiatric Disorders Using the Virtual Brain <b>2021</b> , 153-167  |     |    |
| 239 | Non-thermal Electroporation Ablation of Epileptogenic Zones Stops Seizures in Mice While Providing Reduced Vascular Damage and Accelerated Tissue Recovery.. <i>Frontiers in Behavioral Neuroscience</i> , <b>2021</b> , 15, 774999 | 3.5 | 0  |
| 238 | The Bayesian Virtual Epileptic Patient: A probabilistic framework designed to infer the spatial map of epileptogenicity in a personalized large-scale brain model of epilepsy spread. <i>NeuroImage</i> , <b>2020</b> , 217, 116839 | 7.9 | 20 |
| 237 | In silico exploration of mouse brain dynamics by focal stimulation reflects the organization of functional networks and sensory processing. <i>Network Neuroscience</i> , <b>2020</b> , 4, 807-851                                  | 5.6 | 4  |
| 236 | Dynamical Mechanisms of Interictal Resting-State Functional Connectivity in Epilepsy. <i>Journal of Neuroscience</i> , <b>2020</b> , 40, 5572-5588  | 6.6 | 15 |
| 235 | Spherical-harmonics mode decomposition of neural field equations. <i>Physical Review E</i> , <b>2020</b> , 101, 012202.4  | 2.4 | 2  |
| 234 | Controversies on the network theory of epilepsy: Debates held during the ICTALS 2019 conference. <i>Seizure: the Journal of the British Epilepsy Association</i> , <b>2020</b> , 78, 78-85  | 3.2 | 5  |
| 233 | A mathematical model of ephaptic interactions in neuronal fiber pathways: Could there be more than transmission along the tracts?. <i>Network Neuroscience</i> , <b>2020</b> , 4, 595-610   | 5.6 | 7  |
| 232 | The Epileptor Model: A Systematic Mathematical Analysis Linked to the Dynamics of Seizures, Refractory Status Epilepticus, and Depolarization Block. <i>ENeuro</i> , <b>2020</b> , 7,   | 3.9 | 12 |

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|-----|---|------|----|
| 231 | A taxonomy of seizure dynamotypes. <i>ELife</i> , <b>2020</b> , 9,  | 8.9  | 29 |
| 230 | Structured Flows on Manifolds as guiding concepts in brain science <b>2020</b> , 89-102   |      | 3  |
| 229 | Dynamic Functional Connectivity as a complex random walk: Definitions and the dFCwalk toolbox. <i>MethodsX</i> , <b>2020</b> , 7, 101168  | 1.9  | 2  |
| 228 | Multicenter Alzheimer's and Parkinson's disease immune biomarker verification study. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, 292-304  | 1.2  | 16 |
| 227 | Dynamic Functional Connectivity between order and randomness and its evolution across the human adult lifespan. <i>NeuroImage</i> , <b>2020</b> , 222, 117156   | 7.9  | 27 |
| 226 | Experimental and Computational Study on Motor Control and Recovery After Stroke: Toward a Constructive Loop Between Experimental and Virtual Embodied Neuroscience. <i>Frontiers in Systems Neuroscience</i> , <b>2020</b> , 14, 31 | 3.5  | 6  |
| 225 | Modular slowing of resting-state dynamic functional connectivity as a marker of cognitive dysfunction induced by sleep deprivation. <i>NeuroImage</i> , <b>2020</b> , 222, 117155   | 7.9  | 11 |
| 224 | The Importance of Cerebellar Connectivity on Simulated Brain Dynamics. <i>Frontiers in Cellular Neuroscience</i> , <b>2020</b> , 14, 240  | 6.1  | 4  |
| 223 | The Scientific Case for Brain Simulations. <i>Neuron</i> , <b>2019</b> , 102, 735-744   | 13.9 | 58 |
| 222 | Transmission time delays organize the brain network synchronization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180132                                     | 3    | 40 |
| 221 | The hidden repertoire of brain dynamics and dysfunction. <i>Network Neuroscience</i> , <b>2019</b> , 3, 994-1008  | 5.6  | 20 |
| 220 | Linking Molecular Pathways and Large-Scale Computational Modeling to Assess Candidate Disease Mechanisms and Pharmacodynamics in Alzheimer's Disease. <i>Frontiers in Computational Neuroscience</i> , <b>2019</b> , 13, 54         | 3.5  | 30 |
| 219 | Optimization of surgical intervention outside the epileptogenic zone in the Virtual Epileptic Patient (VEP). <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007051   | 5    | 23 |
| 218 | Grand Unified Theories of the Brain Need Better Understanding of Behavior: The Two-Tiered Emergence of Function. <i>Ecological Psychology</i> , <b>2019</b> , 31, 152-165   | 1.5  | 7  |
| 217 | Lifespan Changes in Network Structure and Network Topology Dynamics During Rest and Auditory Oddball Performance. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 138  | 5.3  | 2  |
| 216 | Differences in MEG and EEG power-law scaling explained by a coupling between spatial coherence and frequency: a simulation study. <i>Journal of Computational Neuroscience</i> , <b>2019</b> , 47, 31-41                            | 1.4  | 4  |
| 215 | The Human Brain Project-Synergy between neuroscience, computing, informatics, and brain-inspired technologies. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000344   | 9.7  | 28 |
| 214 | Controlling seizure propagation in large-scale brain networks. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006805   | 5    | 37 |

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|-----|---|------|-----|
| 213 | Individual structural features constrain the mouse functional connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> ,  | 11.5 | 31  |
| 212 | Multiple Kernel Learning Model for Relating Structural and Functional Connectivity in the Brain. <i>Scientific Reports</i> , <b>2018</b> , 8, 3265                                | 4.9  | 12  |
| 211 | Predicting the spatiotemporal diversity of seizure propagation and termination in human focal epilepsy. <i>Nature Communications</i> , <b>2018</b> , 9, 1088                      | 17.4 | 59  |
| 210 | MULAN: Evaluation and ensemble statistical inference for functional connectivity. <i>NeuroImage</i> , <b>2018</b> , 166, 167-184  | 7.9  | 6   |
| 209 | Phase-lags in large scale brain synchronization: Methodological considerations and in-silico analysis. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006160             | 5    | 39  |
| 208 | Inferring multi-scale neural mechanisms with brain network modelling. <i>ELife</i> , <b>2018</b> , 7,   | 8.9  | 80  |
| 207 | Symmetry Breaking in Space-Time Hierarchies Shapes Brain Dynamics and Behavior. <i>Neuron</i> , <b>2017</b> , 94, 1010-1026   | 13.9 | 63  |
| 206 | Defining epileptogenic networks: Contribution of SEEG and signal analysis. <i>Epilepsia</i> , <b>2017</b> , 58, 1131-1147.  | 17.4 | 206 |
| 205 | Dynamical signatures of isometric force control as a function of age, expertise, and task constraints. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 176-186             | 3.2  | 7   |
| 204 | 26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. <i>BMC Neuroscience</i> , <b>2017</b> , 18,  | 3.2  | 5   |
| 203 | Fast-Slow Bursters in the Unfolding of a High Codimension Singularity and the Ultra-slow Transitions of Classes. <i>Journal of Mathematical Neuroscience</i> , <b>2017</b> , 7, 7 | 2.4  | 36  |
| 202 | Complementary contributions of concurrent EEG and fMRI connectivity for predicting structural connectivity. <i>NeuroImage</i> , <b>2017</b> , 161, 251-260                        | 7.9  | 26  |
| 201 | Ebbinghaus figures that deceive the eye do not necessarily deceive the hand. <i>Scientific Reports</i> , <b>2017</b> , 7, 3111  | 4.9  | 8   |
| 200 | Anatomic consistencies across epilepsies: a stereotactic-EEG informed high-resolution structural connectivity study. <i>Brain</i> , <b>2017</b> , 140, 2639-2652                  | 11.2 | 45  |
| 199 | The dynamics of resting fluctuations in the brain: metastability and its dynamical cortical core. <i>Scientific Reports</i> , <b>2017</b> , 7, 3095                               | 4.9  | 175 |
| 198 | The Virtual Epileptic Patient: Individualized whole-brain models of epilepsy spread. <i>NeuroImage</i> , <b>2017</b> , 145, 377-388   | 7.9  | 163 |
| 197 | Individual brain structure and modelling predict seizure propagation. <i>Brain</i> , <b>2017</b> , 140, 641-654   | 11.2 | 139 |
| 196 | 26th Annual Computational Neuroscience Meeting (CNS*2017): Part 1. <i>BMC Neuroscience</i> , <b>2017</b> , 18,  | 3.2  | 78  |

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|-----|---|-----|-----|
| 195 | The Virtual Mouse Brain: A Computational Neuroinformatics Platform to Study Whole Mouse Brain Dynamics. <i>ENeuro</i> , <b>2017</b> , 4,  | 3.9 | 30  |
| 194 | Computational models of epileptiform activity. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 260, 233-51   | 3   | 103 |
| 193 | The multiscale entropy: Guidelines for use and interpretation in brain signal analysis. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 273, 175-190                                     | 3   | 53  |
| 192 | Functional coordination of muscles underlying changes in behavioural dynamics. <i>Scientific Reports</i> , <b>2016</b> , 6, 27759   | 4.9 | 8   |
| 191 | Resting state brain dynamics and its transients: a combined TMS-EEG study. <i>Scientific Reports</i> , <b>2016</b> , 6, 31220   | 4.9 | 17  |
| 190 | Virtual Brain for neurological disease modeling. <i>Drug Discovery Today: Disease Models</i> , <b>2016</b> , 19, 5-10   | 1.3 | 0   |
| 189 | Auditory Streaming as a Paradigm of Synergetic Pattern Formation in Brain and Behavior. <i>Understanding Complex Systems</i> , <b>2016</b> , 209-226  | 0.4 | 1   |
| 188 | Transcranial direct current stimulation changes resting state functional connectivity: A large-scale brain network modeling study. <i>NeuroImage</i> , <b>2016</b> , 140, 174-87                | 7.9 | 81  |
| 187 | Analytical Operations Relate Structural and Functional Connectivity in the Brain. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157292  | 3.7 | 30  |
| 186 | Selective Activation of Resting-State Networks following Focal Stimulation in a Connectome-Based Network Model of the Human Brain. <i>ENeuro</i> , <b>2016</b> , 3,                             | 3.9 | 52  |
| 185 | Functional Architectures for Complex Behaviors: Analysis and Modeling of Interacting Processes in a Hierarchy of Time Scales. <i>Understanding Complex Systems</i> , <b>2016</b> , 339-344      | 0.4 |     |
| 184 | Structure and Topology Dynamics of Hyper-Frequency Networks during Rest and Auditory Oddball Performance. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 108                | 3.5 | 12  |
| 183 | Functional Mechanisms of Recovery after Chronic Stroke: Modeling with the Virtual Brain. <i>ENeuro</i> , <b>2016</b> , 3,   | 3.9 | 39  |
| 182 | Towards a Pathway Inventory of the Human Brain for Modeling Disease Mechanisms Underlying Neurodegeneration. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 52, 1343-60                  | 4.3 | 11  |
| 181 | A new neuroinformatics approach to personalized medicine in neurology: The Virtual Brain. <i>Current Opinion in Neurology</i> , <b>2016</b> , 29, 429-36  | 7.1 | 28  |
| 180 | Whole-brain analytic measures of network communication reveal increased structure-function correlation in right temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , <b>2016</b> , 11, 707-718 | 5.3 | 34  |
| 179 | How do parcellation size and short-range connectivity affect dynamics in large-scale brain network models?. <i>NeuroImage</i> , <b>2016</b> , 142, 135-149                                      | 7.9 | 58  |
| 178 | Heterogeneity of time delays determines synchronization of coupled oscillators. <i>Physical Review E</i> , <b>2016</b> , 94, 012209   | 2.4 | 35  |

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|-----|---|-----|-----|
| 177 | Functional connectivity dynamics: modeling the switching behavior of the resting state. <i>NeuroImage</i> , <b>2015</b> , 105, 525-35   | 7.9 | 308 |
| 176 | Computational modeling of seizure dynamics using coupled neuronal networks: factors shaping epileptiform activity. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004209                             | 5   | 38  |
| 175 | Effects of task and age on the magnitude and structure of force fluctuations: insights into underlying neuro-behavioral processes. <i>BMC Neuroscience</i> , <b>2015</b> , 16, 12                             | 3.2 | 26  |
| 174 | An automated pipeline for constructing personalized virtual brains from multimodal neuroimaging data. <i>NeuroImage</i> , <b>2015</b> , 117, 343-57   | 7.9 | 75  |
| 173 | The Rediscovery of Slowness: Exploring the Timing of Cognition. <i>Trends in Cognitive Sciences</i> , <b>2015</b> , 19, 616-628   | 14  | 65  |
| 172 | Characterization of Cortical Networks and Corticocortical Functional Connectivity Mediating Arbitrary Visuomotor Mapping. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12643-58                         | 6.6 | 27  |
| 171 | Large-scale brain dynamics: effect of connectivity resolution. <i>BMC Neuroscience</i> , <b>2015</b> , 16,  | 3.2 | 78  |
| 170 | Investigating the effect of electrical brain stimulation using a connectome-based brain network model. <i>BMC Neuroscience</i> , <b>2015</b> , 16,  | 3.2 | 78  |
| 169 | Effects of multimodal distribution of delays in brain network dynamics. <i>BMC Neuroscience</i> , <b>2015</b> , 16,   | 3.2 | 3   |
| 168 | Using the connectome to predict epileptic seizure propagation in the human brain. <i>BMC Neuroscience</i> , <b>2015</b> , 16,   | 3.2 | 1   |
| 167 | Does changing Fitts' Index of difficulty evoke transitions in movement dynamics?. <i>EPJ Nonlinear Biomedical Physics</i> , <b>2015</b> , 3,  |     | 12  |
| 166 | The Virtual Brain: Modeling Biological Correlates of Recovery after Chronic Stroke. <i>Frontiers in Neurology</i> , <b>2015</b> , 6, 228  | 4.1 | 40  |
| 165 | TVB-EduPack-An Interactive Learning and Scripting Platform for The Virtual Brain. <i>Frontiers in Neuroinformatics</i> , <b>2015</b> , 9, 27  | 3.9 | 4   |
| 164 | Relating Alpha Power and Phase to Population Firing and Hemodynamic Activity Using a Thalamo-cortical Neural Mass Model. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004352                       | 5   | 34  |
| 163 | Multistability in Large Scale Models of Brain Activity. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004644  | 5   | 29  |
| 162 | Quantifying the Ebbinghaus figure effect: target size, context size, and target-context distance determine the presence and direction of the illusion. <i>Frontiers in Psychology</i> , <b>2015</b> , 6, 1679 | 3.4 | 9   |
| 161 | Brain Dynamics of Aging: Multiscale Variability of EEG Signals at Rest and during an Auditory Oddball Task. <i>ENeuro</i> , <b>2015</b> , 2,  | 3.9 | 41  |
| 160 | Mathematical framework for large-scale brain network modeling in The Virtual Brain. <i>NeuroImage</i> , <b>2015</b> , 111, 385-430  | 7.9 | 166 |



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| 159 | Seizures, refractory status epilepticus, and depolarization block as endogenous brain activities. <i>Physical Review E</i> , <b>2015</b> , 91, 010701                               | 2.4  | 39  |
| 158 | Visually Evoked Spiking Evolves While Spontaneous Ongoing Dynamics Persist. <i>Frontiers in Systems Neuroscience</i> , <b>2015</b> , 9, 183   | 3.5  | 5   |
| 157 | How delays matter in an oscillatory whole-brain spiking-neuron network model for MEG alpha-rhythms at rest. <i>NeuroImage</i> , <b>2014</b> , 87, 383-94                            | 7.9  | 29  |
| 156 | Permittivity coupling across brain regions determines seizure recruitment in partial epilepsy. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 15009-21                          | 6.6  | 70  |
| 155 | Using the virtual brain to reveal the role of oscillations and plasticity in shaping brain's dynamical landscape. <i>Brain Connectivity</i> , <b>2014</b> , 4, 791-811              | 2.7  | 34  |
| 154 | On the nature of seizure dynamics. <i>Brain</i> , <b>2014</b> , 137, 2210-30  | 11.2 | 397 |
| 153 | Identification of optimal structural connectivity using functional connectivity and neural modeling. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 7910-6                      | 6.6  | 108 |
| 152 | Integrating neuroinformatics tools in TheVirtualBrain. <i>Frontiers in Neuroinformatics</i> , <b>2014</b> , 8, 36   | 3.9  | 22  |
| 151 | A systematic framework for functional connectivity measures. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 405  | 5.1  | 142 |
| 150 | Functional architectures and structured flows on manifolds: a dynamical framework for motor behavior. <i>Psychological Review</i> , <b>2014</b> , 121, 302-36                       | 6.3  | 52  |
| 149 | Modern concepts of seizure modeling. <i>International Review of Neurobiology</i> , <b>2014</b> , 114, 121-53  | 4.4  | 10  |
| 148 | Large Scale Brain Networks of Neural Fields <b>2014</b> , 417-432   |      | 0   |
| 147 | The Virtual Brain: a neuroinformatics platform for simulating large-scale brain network models. <i>BMC Neuroscience</i> , <b>2013</b> , 14,   | 3.2  | 78  |
| 146 | Spatiotemporal dynamics in the human brain during rest: a virtual brain study. <i>BMC Neuroscience</i> , <b>2013</b> , 14,  | 3.2  | 1   |
| 145 | Variability in brain network model dynamics: comparison of neural mass models and empirical connectivity datasets in The Virtual Brain. <i>BMC Neuroscience</i> , <b>2013</b> , 14, | 3.2  | 78  |
| 144 | Modeling Alpha-Band Functional Connectivity for MEG Resting State Data: Oscillations and Delays in a Spiking Neuron Model. <i>BMC Neuroscience</i> , <b>2013</b> , 14,              | 3.2  | 78  |
| 143 | Modeling epileptic dynamics in the hippocampus using a multiscale approach. <i>BMC Neuroscience</i> , <b>2013</b> , 14,   | 3.2  | 78  |
| 142 | On the spatiotemporal dynamics and couplings across epileptogenic networks. <i>BMC Neuroscience</i> , <b>2013</b> , 14,   | 3.2  | 78  |



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| 141 | Dynamics of neural systems in epilepsy. <i>BMC Neuroscience</i> , <b>2013</b> , 14,  | 3.2  | 78  |
| 140 | Accelerating The Virtual Brain with code generation and GPU computing. <i>BMC Neuroscience</i> , <b>2013</b> , 14,   | 3.2  | 78  |
| 139 | The virtual brain integrates computational modeling and multimodal neuroimaging. <i>Brain Connectivity</i> , <b>2013</b> , 3, 121-45   | 2.7  | 151 |
| 138 | Resting brains never rest: computational insights into potential cognitive architectures. <i>Trends in Neurosciences</i> , <b>2013</b> , 36, 268-74  | 13.3 | 240 |
| 137 | Bottom up modeling of the connectome: linking structure and function in the resting brain and their changes in aging. <i>NeuroImage</i> , <b>2013</b> , 80, 318-29                                     | 7.9  | 56  |
| 136 | Mapping the dynamic repertoire of the resting brain. <i>NeuroImage</i> , <b>2013</b> , 78, 448-62  | 7.9  | 8   |
| 135 | Systematic approximations of neural fields through networks of neural masses in the virtual brain. <i>NeuroImage</i> , <b>2013</b> , 83, 704-25  | 7.9  | 39  |
| 134 | Anatomical connectivity and the resting state activity of large cortical networks. <i>NeuroImage</i> , <b>2013</b> , 65, 127-38  | 7.9  | 40  |
| 133 | Spatiotemporal multi-resolution approximation of the Amari type neural field model. <i>NeuroImage</i> , <b>2013</b> , 66, 88-102   | 7.9  | 9   |
| 132 | From birdsong to human speech recognition: bayesian inference on a hierarchy of nonlinear dynamical systems. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1003219                             | 5    | 34  |
| 131 | On the time course of synchronization patterns of neuronal discharges in the human brain during cognitive tasks. <i>PLoS ONE</i> , <b>2013</b> , 8, e63293   | 3.7  | 12  |
| 130 | Inferring network properties of cortical neurons with synaptic coupling and parameter dispersion. <i>Frontiers in Computational Neuroscience</i> , <b>2013</b> , 7, 20                                 | 3.5  | 4   |
| 129 | Cross-frequency coupling in real and virtual brain networks. <i>Frontiers in Computational Neuroscience</i> , <b>2013</b> , 7, 78  | 3.5  | 125 |
| 128 | The Virtual Brain: a simulator of primate brain network dynamics. <i>Frontiers in Neuroinformatics</i> , <b>2013</b> , 7, 10   | 3.9  | 214 |
| 127 | Emergent dynamics from spiking neuron networks through symmetry breaking of connectivity. <i>PLoS ONE</i> , <b>2013</b> , 8, e64339  | 3.7  | 11  |
| 126 | Spatiotemporal re-organization of large-scale neural assemblies underlies bimanual coordination. <i>NeuroImage</i> , <b>2012</b> , 62, 1582-92   | 7.9  | 59  |
| 125 | How anatomy shapes dynamics: a semi-analytical study of the brain at rest by a simple spin model. <i>Frontiers in Computational Neuroscience</i> , <b>2012</b> , 6, 68                                 | 3.5  | 92  |
| 124 | Complete OATP1B1 and OATP1B3 deficiency causes human Rotor syndrome by interrupting conjugated bilirubin reuptake into the liver. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 519-28 | 15.9 | 265 |

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| 17 | Linking molecular pathways and large-scale computational modeling to assess candidate disease mechanisms and pharmacodynamics in Alzheimer's disease                    |      | 4   |
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| 15 | A mathematical model of ephaptic interactions in neuronal fiber pathways: could there be more than transmission along the tracts?   | 1      |
| 14 | Computational modeling of seizure spread on a cortical surface  | 1      |
| 13 | The dynamics of resting fluctuations in the brain: metastability and its dynamical cortical core  | 5      |
| 12 | Bridging multiple scales in the human brain using computational modelling   | 4      |
| 11 | Dynamic Functional Connectivity between Order and Randomness and its Evolution across the Human Adult Lifespan  | 9      |
| 10 | Modular slowing of resting-state dynamic Functional Connectivity as a marker of cognitive dysfunction induced by sleep deprivation  | 4      |
| 9  | Virtual connectomic datasets in Alzheimer's Disease and aging using whole-brain network dynamics modelling  | 2      |
| 8  | Identifying optimal working points of individual Virtual Brains: A large-scale brain network modelling study  | 6      |
| 7  | Neuronal cascades shape whole-brain functional dynamics at rest   | 5      |
| 6  | Brain-scale emergence of slow-wave synchrony and highly responsive asynchronous states based on biologically realistic population models simulated in The Virtual Brain                     | 4      |
| 5  | Controlling seizure propagation in large-scale brain networks   | 1      |
| 4  | The Hidden Repertoire of Brain Dynamics and Dysfunction   | 2      |
| 3  | The Virtual Mouse Brain: a computational neuroinformatics platform to study whole mouse brain dynamics  | 2      |
| 2  | Multi-scale brain simulation with integrated positron emission tomography yields hidden local field potential activity that augments machine learning classification of Alzheimer's disease | 2      |
| 1  | Laser-Driven Wireless Deep Brain Stimulation using Temporal Interference and Organic Electrolytic Photocapacitors. <i>Advanced Functional Materials</i> ,2200691                            | 15.6 1 |