

# Peter Robinson

## List of Publications by Citations

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239  
papers

7,967  
citations

46  
h-index

80  
g-index

240  
ext. papers

8,682  
ext. citations

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avg, IF

6.29  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 239 | A unifying explanation of primary generalized seizures through nonlinear brain modeling and bifurcation analysis. <i>Cerebral Cortex</i> , <b>2006</b> , 16, 1296-313 | 5.1  | 345       |
| 238 | Propagation and stability of waves of electrical activity in the cerebral cortex. <i>Physical Review E</i> , <b>1997</b> , 56, 826-840                                | 2.4  | 335       |
| 237 | Nonlinear wave collapse and strong turbulence. <i>Reviews of Modern Physics</i> , <b>1997</b> , 69, 507-574   | 40.5 | 331       |
| 236 | Dynamics of large-scale brain activity in normal arousal states and epileptic seizures. <i>Physical Review E</i> , <b>2002</b> , 65, 041924                           | 2.4  | 323       |
| 235 | S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. <i>Space Science Reviews</i> , <b>2008</b> , 136, 487-528                                     | 7.5  | 269       |
| 234 | Prediction of electroencephalographic spectra from neurophysiology. <i>Physical Review E</i> , <b>2001</b> , 63, 021903   | 2.4  | 260       |
| 233 | Estimation of multiscale neurophysiologic parameters by electroencephalographic means. <i>Human Brain Mapping</i> , <b>2004</b> , 23, 53-72                           | 5.9  | 203       |
| 232 | Unified neurophysical model of EEG spectra and evoked potentials. <i>Biological Cybernetics</i> , <b>2002</b> , 86, 457-488   | 2.8  | 189       |
| 231 | Biophysical mechanisms of multistability in resting-state cortical rhythms. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 6353-61                                | 6.6  | 182       |
| 230 | Mechanisms of cortical electrical activity and emergence of gamma rhythm. <i>Journal of Theoretical Biology</i> , <b>2000</b> , 205, 17-35                            | 2.3  | 159       |
| 229 | Bistability and non-Gaussian fluctuations in spontaneous cortical activity. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 8512-24                                | 6.6  | 135       |
| 228 | Clumpy Langmuir waves in type III radio sources. <i>Solar Physics</i> , <b>1992</b> , 139, 147-163  | 2.6  | 120       |
| 227 | Multiscale brain modelling. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2005</b> , 360, 1043-50                                | 5.8  | 115       |
| 226 | Clumpy Langmuir waves in type III radio sources - Comparison of stochastic-growth theory with observations. <i>Astrophysical Journal</i> , <b>1993</b> , 407, 790     | 4.7  | 114       |
| 225 | Fundamental and Harmonic Emission in Type III Solar Radio Bursts II. Emission at a Single Location or Frequency <b>1998</b> , 181, 363-394                            |      | 113       |
| 224 | Modal analysis of corticothalamic dynamics, electroencephalographic spectra, and evoked potentials. <i>Physical Review E</i> , <b>2001</b> , 63, 041909               | 2.4  | 108       |
| 223 | Neurophysical modeling of brain dynamics. <i>Neuropsychopharmacology</i> , <b>2003</b> , 28 Suppl 1, S74-9  | 8.7  | 100       |

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|-----|---|-----|----|
| 222 | Mean-field modeling of the basal ganglia-thalamocortical system. I Firing rates in healthy and parkinsonian states. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 257, 642-63 | 2.3 | 93 |
| 221 | Toward an integrated continuum model of cerebral dynamics: the cerebral rhythms, synchronous oscillation and cortical stability. <i>BioSystems</i> , <b>2001</b> , 63, 71-88          | 1.9 | 87 |
| 220 | Steady states and global dynamics of electrical activity in the cerebral cortex. <i>Physical Review E</i> , <b>1998</b> , 58, 3557-3571   | 2.4 | 83 |
| 219 | Dynamics and efficiency of type III solar radio emission. <i>Astrophysical Journal</i> , <b>1994</b> , 422, 870   | 4.7 | 82 |
| 218 | Stochastic wave growth. <i>Physics of Plasmas</i> , <b>1995</b> , 2, 1466-1479  | 2.1 | 77 |
| 217 | Mean-field modeling of the basal ganglia-thalamocortical system. II Dynamics of parkinsonian oscillations. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 257, 664-88          | 2.3 | 75 |
| 216 | Geometric effects on complex network structure in the cortex. <i>Physical Review Letters</i> , <b>2011</b> , 107, 018102  | 4   | 70 |
| 215 | Hemodynamic traveling waves in human visual cortex. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002435   | 5   | 67 |
| 214 | Fundamental and Harmonic Emission in Type III Solar Radio Bursts III. Dominant Modes and Dynamic Spectra <b>1998</b> , 181, 395-428   |     | 66 |
| 213 | Neurophysical theory of coherence and correlations of electroencephalographic and electrocorticographic signals. <i>Journal of Theoretical Biology</i> , <b>2003</b> , 222, 163-75    | 2.3 | 65 |
| 212 | Effects of local feedback on dispersion of electrical waves in the cerebral cortex. <i>Physical Review E</i> , <b>1999</b> , 59, 3320-3329  | 2.4 | 65 |
| 211 | Second harmonic electromagnetic emission via Langmuir wave coalescence. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 149-159  | 2.1 | 62 |
| 210 | Relativistic plasma dispersion functions. <i>Journal of Mathematical Physics</i> , <b>1986</b> , 27, 1206-1214  | 1.2 | 62 |
| 209 | Eigenmodes of brain activity: Neural field theory predictions and comparison with experiment. <i>NeuroImage</i> , <b>2016</b> , 142, 79-98  | 7.9 | 61 |
| 208 | Theory for low-frequency modulated Langmuir wave packets. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 2187-2190   | 4.9 | 59 |
| 207 | Neurophysiological changes with age probed by inverse modeling of EEG spectra. <i>Clinical Neurophysiology</i> , <b>2010</b> , 121, 21-38   | 4.3 | 58 |
| 206 | Quantitative theory of driven nonlinear brain dynamics. <i>NeuroImage</i> , <b>2012</b> , 62, 1947-55   | 7.9 | 57 |
| 205 | Transit-time damping and the arrest of wave collapse. <i>Physics of Fluids B</i> , <b>1991</b> , 3, 545-554   |     | 56 |

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| 204 | Interrelating anatomical, effective, and functional brain connectivity using propagators and neural field theory. <i>Physical Review E</i> , <b>2012</b> , 85, 011912            | 2.4 | 53 |
| 203 | Patchy propagators, brain dynamics, and the generation of spatially structured gamma oscillations. <i>Physical Review E</i> , <b>2006</b> , 73, 041904                           | 2.4 | 53 |
| 202 | Propagator theory of brain dynamics. <i>Physical Review E</i> , <b>2005</b> , 72, 011904   | 2.4 | 53 |
| 201 | Dynamical reconnection and stability constraints on cortical network architecture. <i>Physical Review Letters</i> , <b>2009</b> , 103, 108104                                    | 7.4 | 52 |
| 200 | Theoretically predicted properties of type II radio emission from an interplanetary foreshock. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,                       |     | 51 |
| 199 | Nonuniform corticothalamic continuum model of electroencephalographic spectra with application to split-alpha peaks. <i>Physical Review E</i> , <b>2003</b> , 68, 021922         | 2.4 | 50 |
| 198 | Synchronous oscillations in the cerebral cortex. <i>Physical Review E</i> , <b>1998</b> , 57, 4578-4588  | 2.4 | 50 |
| 197 | Physiologically based arousal state estimation and dynamics. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 253, 55-69   | 3   | 49 |
| 196 | First test of stochastic growth theory for Langmuir waves in Earth's foreshock. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 369-372                                  | 4.9 | 49 |
| 195 | Effects of geometric and refractive index disorder on wave propagation in two-dimensional photonic crystals. <i>Physical Review E</i> , <b>2000</b> , 62, 5711-20                | 2.4 | 49 |
| 194 | Dynamics of epileptic seizures: evolution, spreading, and suppression. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 257, 527-32   | 2.3 | 46 |
| 193 | Quasiperiodic behavior in beam-driven strong Langmuir turbulence. <i>Physics of Fluids B</i> , <b>1989</b> , 1, 2319-2329  |     | 46 |
| 192 | BOLD responses to stimuli: dependence on frequency, stimulus form, amplitude, and repetition rate. <i>NeuroImage</i> , <b>2006</b> , 31, 585-99                                  | 7.9 | 45 |
| 191 | Fundamental and Harmonic Emission in Type III Solar Radio Bursts III. Heliocentric Variation of Interplanetary Beam and Source Parameters <b>1998</b> , 181, 429-437             |     | 44 |
| 190 | Dynamics of beam-driven Langmuir and ion-acoustic waves including electrostatic decay. <i>Physics of Plasmas</i> , <b>2003</b> , 10, 2748-2762                                   | 2.1 | 44 |
| 189 | Calculation of electromagnetic properties of regular and random arrays of metallic and dielectric cylinders. <i>Physical Review E</i> , <b>1999</b> , 60, 7614-7                 | 2.4 | 44 |
| 188 | Numerical simulations of type-III solar radio bursts. <i>Physical Review Letters</i> , <b>2006</b> , 96, 145005  | 7.4 | 43 |
| 187 | Determination of effective brain connectivity from functional connectivity with application to resting state connectivities. <i>Physical Review E</i> , <b>2014</b> , 90, 012707 | 2.4 | 39 |

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|-----|---|------|----|
| 186 | Multiple electron beam propagation and Langmuir wave generation in plasmas. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 2976-2987  | 2.1  | 39 |
| 185 | Spatiotemporal BOLD dynamics from a poroelastic hemodynamic model. <i>Journal of Theoretical Biology</i> , <b>2010</b> , 265, 524-34  | 2.3  | 38 |
| 184 | Constraints on Nonlinear and Stochastic Growth Theories for Type III Solar Radio Bursts from the Corona to 1 AU. <i>Astrophysical Journal</i> , <b>1998</b> , 509, 471-481        | 4.7  | 38 |
| 183 | Compact dynamical model of brain activity. <i>Physical Review E</i> , <b>2007</b> , 75, 031907  | 2.4  | 37 |
| 182 | Thermal and driven stochastic growth of Langmuir waves in the solar wind and Earth's foreshock. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 61-64                     | 4.9  | 37 |
| 181 | Theoretical modeling for the stereo mission. <i>Space Science Reviews</i> , <b>2008</b> , 136, 565-604  | 7.5  | 36 |
| 180 | Second harmonic electromagnetic emission via beam-driven Langmuir waves. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 012103-012103-15   | 2.1  | 36 |
| 179 | Automated characterization of multiple alpha peaks in multi-site electroencephalograms. <i>Journal of Neuroscience Methods</i> , <b>2008</b> , 168, 396-411                       | 3    | 35 |
| 178 | Interpretation of scaling properties of electroencephalographic fluctuations via spectral analysis and underlying physiology. <i>Physical Review E</i> , <b>2003</b> , 67, 032902 | 2.4  | 35 |
| 177 | Spectral Characterization of Hierarchical Modularity in Product Architectures. <i>Journal of Mechanical Design, Transactions of the ASME</i> , <b>2014</b> , 136, 0110061-1100612 | 3    | 34 |
| 176 | Simulated electrocortical activity at microscopic, mesoscopic, and global scales. <i>Neuropsychopharmacology</i> , <b>2003</b> , 28 Suppl 1, S80-93                               | 8.7  | 34 |
| 175 | Dynamics of fundamental electromagnetic emission via beam-driven Langmuir waves. <i>Physics of Plasmas</i> , <b>2005</b> , 12, 052324   | 2.1  | 34 |
| 174 | Cortical information flow in Parkinson's disease: a composite network/field model. <i>Frontiers in Computational Neuroscience</i> , <b>2013</b> , 7, 39                           | 3.5  | 33 |
| 173 | Quasilinear calculation of Langmuir wave generation and beam propagation in the presence of density fluctuations. <i>Physics of Plasmas</i> , <b>2006</b> , 13, 082305            | 2.1  | 33 |
| 172 | Prediction and verification of nonlinear sleep spindle harmonic oscillations. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 344, 70-7                                     | 2.3  | 32 |
| 171 | Quantitative modelling of sleep dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 3840-54               | 3    | 32 |
| 170 | Physiology-based modeling of cortical auditory evoked potentials. <i>Biological Cybernetics</i> , <b>2008</b> , 98, 171-848   | 8.48 | 32 |
| 169 | Deconvolution of neural dynamics from fMRI data using a spatiotemporal hemodynamic response function. <i>NeuroImage</i> , <b>2014</b> , 94, 203-215                               | 7.9  | 31 |

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| 168 | Spatiotemporal hemodynamic response functions derived from physiology. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 347, 118-36   | 2.3 | 31 |
| 167 | The spatiotemporal hemodynamic response function for depth-dependent functional imaging of human cortex. <i>NeuroImage</i> , <b>2016</b> , 139, 240-248  | 7.9 | 30 |
| 166 | Spatially uniform and nonuniform analyses of electroencephalographic dynamics, with application to the topography of the alpha rhythm. <i>Physical Review E</i> , <b>2004</b> , 70, 011911                   | 2.4 | 29 |
| 165 | Maximum Langmuir fields in planetary foreshocks determined from the electrostatic decay threshold. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 2657-2660   | 4.9 | 29 |
| 164 | strong Langmuir turbulence at Jupiter?. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 1069-1072  | 4.9 | 29 |
| 163 | Wave-number spectrum of electroencephalographic signals. <i>Physical Review E</i> , <b>2002</b> , 66, 061905   | 2.4 | 28 |
| 162 | EFFECTS OF SPATIAL VARIATIONS IN CORONAL TEMPERATURES ON TYPE III BURSTS. I. VARIATIONS IN ELECTRON TEMPERATURE. <i>Astrophysical Journal</i> , <b>2011</b> , 730, 20  | 4.7 | 26 |
| 161 | Neural rate equations for bursting dynamics derived from conductance-based equations. <i>Journal of Theoretical Biology</i> , <b>2008</b> , 250, 663-72  | 2.3 | 26 |
| 160 | Stimulant drug action in attention deficit hyperactivity disorder (ADHD): inference of neurophysiological mechanisms via quantitative modelling. <i>Clinical Neurophysiology</i> , <b>2005</b> , 116, 324-35 | 4.3 | 26 |
| 159 | Inconsistency of Ulysses millisecond Langmuir spikes with wave collapse in type III radio sources. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 3437-3440   | 4.9 | 26 |
| 158 | Neural field theory of synaptic plasticity. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 285, 156-63  | 2.3 | 25 |
| 157 | Corticothalamic dynamics: structure of parameter space, spectra, instabilities, and reduced model. <i>Physical Review E</i> , <b>2012</b> , 85, 011910   | 2.4 | 25 |
| 156 | Type II radio emission predictions: Multiple shock ripples and dynamic spectra. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,  |     | 25 |
| 155 | Neural masses and fields: modeling the dynamics of brain activity. <i>Frontiers in Computational Neuroscience</i> , <b>2014</b> , 8, 149   | 3.5 | 24 |
| 154 | Modeling distributed axonal delays in mean-field brain dynamics. <i>Physical Review E</i> , <b>2008</b> , 78, 051901   | 2.4 | 24 |
| 153 | Field distributions and shapes of Langmuir wave packets observed by Ulysses in an interplanetary type III burst source region. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a           |     | 24 |
| 152 | Stochastic growth of localized plasma waves. <i>Physics of Plasmas</i> , <b>2001</b> , 8, 2394-2400  | 2.1 | 24 |
| 151 | The gouy phase shift as a geometrical quantum effect. <i>Journal of Modern Optics</i> , <b>1996</b> , 43, 219-221  | 1.1 | 23 |

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| 150 | Biophysical modeling of neural plasticity induced by transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , <b>2018</b> , 129, 1230-1241                                  | 4.3 | 22 |
| 149 | Relationships between Electroencephalographic Spectral Peaks Across Frequency Bands. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 56                                       | 3.3 | 22 |
| 148 | Warm electromagnetic lower hybrid wave dispersion relation. <i>Physics of Plasmas</i> , <b>2009</b> , 16, 052105  | 2.1 | 22 |
| 147 | Data-driven solar wind model and prediction of type II bursts. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,  | 4.9 | 22 |
| 146 | Experimental observation of a theoretically predicted nonlinear sleep spindle harmonic in human EEG. <i>Clinical Neurophysiology</i> , <b>2014</b> , 125, 2016-23                       | 4.3 | 21 |
| 145 | Transit-time interactions in magnetized plasmas. <i>Physics of Fluids B</i> , <b>1993</b> , 5, 1045-1056  |     | 21 |
| 144 | Neural field theory of calcium dependent plasticity with applications to transcranial magnetic stimulation. <i>Journal of Theoretical Biology</i> , <b>2013</b> , 324, 72-83            | 2.3 | 20 |
| 143 | Neural field theory of plasticity in the cerebral cortex. <i>Journal of Theoretical Biology</i> , <b>2013</b> , 318, 44-57  | 2.3 | 20 |
| 142 | Frequency Fine Structures of Type III Bursts Due to Localized Medium-Scale Density Structures Along Paths of Type III Beams. <i>Solar Physics</i> , <b>2012</b> , 279, 173-196          | 2.6 | 20 |
| 141 | Model-based analysis and quantification of age trends in auditory evoked potentials. <i>Clinical Neurophysiology</i> , <b>2011</b> , 122, 134-47  | 4.3 | 20 |
| 140 | Cortical geometry as a determinant of brain activity eigenmodes: Neural field analysis. <i>Physical Review E</i> , <b>2017</b> , 96, 032413   | 2.4 | 19 |
| 139 | Critical dynamics of Hopf bifurcations in the corticothalamic system: Transitions from normal arousal states to epileptic seizures. <i>Physical Review E</i> , <b>2017</b> , 95, 042410 | 2.4 | 19 |
| 138 | Wave-number spectrum of electrocorticographic signals. <i>Physical Review E</i> , <b>2003</b> , 67, 051912  | 2.4 | 19 |
| 137 | Wave damping as a critical phenomenon. <i>Physics of Plasmas</i> , <b>2004</b> , 11, 4649-4661  | 2.1 | 19 |
| 136 | A quantitative theory for terrestrial foreshock radio emissions. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 2-1-2-4  | 4.9 | 19 |
| 135 | Properties of transit-time interactions in magnetized plasmas: Analytic and numerical results. <i>Physics of Fluids B</i> , <b>1993</b> , 5, 2751-2763                                  |     | 19 |
| 134 | EFFECTS OF SPATIAL VARIATIONS IN CORONAL ELECTRON AND ION TEMPERATURES ON TYPE III BURSTS. II. VARIATIONS IN ION TEMPERATURE. <i>Astrophysical Journal</i> , <b>2011</b> , 730, 21      | 4.7 | 18 |
| 133 | New regimes of stochastic wave growth. <i>Physical Review Letters</i> , <b>2004</b> , 93, 235003  | 7.4 | 18 |

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|-----|---|-----|----|
| 132 | Progress on Coronal, Interplanetary, Foreshock, and Outer Heliospheric Radio Emissions. <i>Publications of the Astronomical Society of Australia</i> , <b>2000</b> , 17, 22-34                                    | 5.5 | 18 |
| 131 | Relativistic plasma dispersion functions: Series, integrals, and approximations. <i>Journal of Mathematical Physics</i> , <b>1987</b> , 28, 1203-1205   | 1.2 | 18 |
| 130 | Dispersion of electron Bernstein waves including weakly relativistic and electromagnetic effects. Part 2. Extraordinary modes. <i>Journal of Plasma Physics</i> , <b>1987</b> , 37, 449-465                       | 2.7 | 18 |
| 129 | Physical brain connectomics. <i>Physical Review E</i> , <b>2019</b> , 99, 012421  | 2.4 | 17 |
| 128 | Neural field theory of synaptic metaplasticity with applications to theta burst stimulation. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 340, 164-76  | 2.3 | 17 |
| 127 | Electron cyclotron waves: dispersion and accessibility conditions in isotropic and anisotropic plasmas. <i>Journal of Plasma Physics</i> , <b>1986</b> , 35, 187-207  | 2.7 | 17 |
| 126 | Inference of direct and multistep effective connectivities from functional connectivity of the brain and of relationships to cortical geometry. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 283, 42-54 | 3   | 16 |
| 125 | Generalized seizures in a neural field model with bursting dynamics. <i>Journal of Computational Neuroscience</i> , <b>2015</b> , 39, 197-216   | 1.4 | 16 |
| 124 | Spike, rate, field, and hybrid methods for treating neuronal dynamics and interactions. <i>Journal of Neuroscience Methods</i> , <b>2012</b> , 205, 283-94  | 3   | 16 |
| 123 | Effects of astrocytic dynamics on spatiotemporal hemodynamics: Modeling and enhanced data analysis. <i>NeuroImage</i> , <b>2017</b> , 147, 994-1005   | 7.9 | 16 |
| 122 | Physiologically based calculation of steady-state evoked potentials and cortical wave velocities. <i>Biological Cybernetics</i> , <b>2008</b> , 98, 1-10  | 2.8 | 16 |
| 121 | Theory for 2B kHz radiation from the outer heliosphere. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,   |     | 16 |
| 120 | Real-time automated EEG tracking of brain states using neural field theory. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 258, 28-45   | 3   | 15 |
| 119 | Local transit-time damping in a magnetic field, and the arrest of lower-hybrid wave collapse. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 1263-1279  | 2.1 | 15 |
| 118 | Langmuir field structures favored in wave collapse. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 122-132  | 2.1 | 15 |
| 117 | Dispersion of electron Bernstein waves including weakly relativistic and electromagnetic effects. Part 1. Ordinary modes. <i>Journal of Plasma Physics</i> , <b>1987</b> , 37, 435-447                            | 2.7 | 15 |
| 116 | Unified neural field theory of brain dynamics underlying oscillations in Parkinson's disease and generalized epilepsies. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 428, 132-146                       | 2.3 | 14 |
| 115 | Electron-cyclotron maser theory for extraordinary Bernstein waves. <i>Journal of Plasma Physics</i> , <b>1997</b> , 58, 171-191   | 2.7 | 14 |



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|-----|---|-----|----|
| 114 | Calcium dependent plasticity applied to repetitive transcranial magnetic stimulation with a neural field model. <i>Journal of Computational Neuroscience</i> , <b>2016</b> , 41, 107-25 | 1.4 | 13 |
| 113 | Neural field theory of nonlinear wave-wave and wave-neuron processes. <i>Physical Review E</i> , <b>2015</b> , 91, 062719   | 2.4 | 13 |
| 112 | Modeling 1 AU solar wind observations to estimate azimuthal magnetic fields at the solar source surface. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a                | 4.9 | 13 |
| 111 | Complementarity of spike- and rate-based dynamics of neural systems. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002560  | 5   | 13 |
| 110 | Visual gamma oscillations: waves, correlations, and other phenomena, including comparison with experimental data. <i>Biological Cybernetics</i> , <b>2007</b> , 97, 317-35              | 2.8 | 13 |
| 109 | Electromagnetic strong plasma turbulence. <i>Physics of Plasmas</i> , <b>2007</b> , 14, 020703  | 2.1 | 13 |
| 108 | New constraints and energy conversion efficiencies for plasma emission. <i>Physics of Plasmas</i> , <b>2003</b> , 10, 3315-3320   | 2.1 | 13 |
| 107 | Analytic treatment of weak-turbulence Langmuir wave electrostatic decay. <i>Physics of Plasmas</i> , <b>2001</b> , 8, 428-440   | 2.1 | 13 |
| 106 | Effect of ambient density fluctuations on Langmuir wave collapse and strong turbulence. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 3057-3065  | 2.1 | 13 |
| 105 | Analytic treatment of electromagnetic emission near the plasma frequency via Langmuir wave decay. <i>Physics of Plasmas</i> , <b>1999</b> , 6, 3799-3807                                | 2.1 | 13 |
| 104 | Scalings, spectra, and statistics of strong wave turbulence. <i>Physics of Plasmas</i> , <b>1996</b> , 3, 192-201   | 2.1 | 13 |
| 103 | The balanced and introspective brain. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,   | 4.1 | 12 |
| 102 | Type II solar radio bursts: Modeling and extraction of shock parameters. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a  |     | 12 |
| 101 | Unifying and interpreting the spectral wavenumber content of EEGs, ECoGs, and ERPs. <i>Journal of Theoretical Biology</i> , <b>2004</b> , 231, 397-412                                  | 2.3 | 12 |
| 100 | Unified theory of monochromatic and broadband modulational and decay instabilities of Langmuir waves. <i>Physics of Plasmas</i> , <b>2002</b> , 9, 4149-4159                            | 2.1 | 12 |
| 99  | Bursty wave instabilities in open driven plasmas. <i>Physical Review Letters</i> , <b>1996</b> , 76, 3558-3561  | 7.4 | 12 |
| 98  | Thermal effects on parallel-propagating electron cyclotron waves. <i>Journal of Plasma Physics</i> , <b>1987</b> , 37, 149-162  | 2.7 | 12 |
| 97  | Dynamics of cortical activity eigenmodes including standing, traveling, and rotating waves. <i>Physical Review E</i> , <b>2018</b> , 98,  | 2.4 | 12 |

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| 96 | Neural field theory of perceptual echo and implications for estimating brain connectivity. <i>Physical Review E</i> , <b>2018</b> , 97, 042418   | 2.4 | 11 |
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