

Peter A Robinson

List of Publications by Citations

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116
papers

4,263
citations

33
h-index

62
g-index

119
ext. papers

4,758
ext. citations

4.1
avg, IF

5.45
L-index

#	Paper	IF	Citations
116	The dynamic brain: from spiking neurons to neural masses and cortical fields. <i>PLoS Computational Biology</i> , 2008 , 4, e1000092	5	634
115	Comparing hemodynamic models with DCM. <i>NeuroImage</i> , 2007 , 38, 387-401	7.9	346
114	S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. <i>Space Science Reviews</i> , 2008 , 136, 487-528	7.5	269
113	Biophysical mechanisms of multistability in resting-state cortical rhythms. <i>Journal of Neuroscience</i> , 2011 , 31, 6353-61	6.6	182
112	Mechanisms of cortical electrical activity and emergence of gamma rhythm. <i>Journal of Theoretical Biology</i> , 2000 , 205, 17-35	2.3	159
111	Bistability and non-Gaussian fluctuations in spontaneous cortical activity. <i>Journal of Neuroscience</i> , 2009 , 29, 8512-24	6.6	135
110	Clumpy Langmuir waves in type III radio sources - Comparison of stochastic-growth theory with observations. <i>Astrophysical Journal</i> , 1993 , 407, 790	4.7	114
109	Estimation of neurophysiological parameters from the waking EEG using a biophysical model of brain dynamics. <i>Journal of Theoretical Biology</i> , 2004 , 231, 413-33	2.3	104
108	Dynamics of Langmuir and ion-sound waves in type III solar radio sources. <i>Astrophysical Journal</i> , 1993 , 408, 720	4.7	100
107	Dynamics and efficiency of type III solar radio emission. <i>Astrophysical Journal</i> , 1994 , 422, 870	4.7	82
106	Strong Evidence for Stochastic Growth of Langmuir-like Waves in Earth's Foreshock. <i>Physical Review Letters</i> , 1999 , 82, 3066-3069	7.4	80
105	Construction of multivariate surrogate sets from nonlinear data using the wavelet transform. <i>Physica D: Nonlinear Phenomena</i> , 2003 , 182, 1-22	3.3	75
104	Microstructured optical fibers: where's the edge?. <i>Optics Express</i> , 2002 , 10, 1285-90	3.3	75
103	A unified model of melatonin, 6-sulfatoxymelatonin, and sleep dynamics. <i>Journal of Pineal Research</i> , 2018 , 64, e12474	10.4	59
102	Theory for low-frequency modulated Langmuir wave packets. <i>Geophysical Research Letters</i> , 1992 , 19, 2187-2190	4.9	59
101	Modeling absence seizure dynamics: implications for basic mechanisms and measurement of thalamocortical and corticothalamic latencies. <i>Journal of Theoretical Biology</i> , 2008 , 253, 189-201	2.3	50
100	First test of stochastic growth theory for Langmuir waves in Earth's foreshock. <i>Geophysical Research Letters</i> , 1997 , 24, 369-372	4.9	49

99	Stochastic Growth Theory of Type III Solar Radio Emission. <i>Astrophysical Journal</i> , 1993 , 418, 506	4.7	49
98	Simulations of coronal type III solar radio bursts: 1. Simulation model. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		45
97	Human cortical traveling waves: dynamical properties and correlations with responses. <i>PLoS ONE</i> , 2012 , 7, e38392	3.7	44
96	Extraordinary-mode radiation produced by linear-mode conversion of langmuir waves. <i>Physical Review Letters</i> , 2007 , 99, 015003	7.4	44
95	Dynamics of beam-driven Langmuir and ion-acoustic waves including electrostatic decay. <i>Physics of Plasmas</i> , 2003 , 10, 2748-2762	2.1	44
94	Numerical simulations of type-III solar radio bursts. <i>Physical Review Letters</i> , 2006 , 96, 145005	7.4	43
93	A new EEG biomarker of neurobehavioural impairment and sleepiness in sleep apnea patients and controls during extended wakefulness. <i>Clinical Neurophysiology</i> , 2013 , 124, 1605-14	4.3	42
92	Multiple electron beam propagation and Langmuir wave generation in plasmas. <i>Physics of Plasmas</i> , 2002 , 9, 2976-2987	2.1	39
91	Ion Acoustic Wave Frequencies and Onset Times during Type III Solar Radio Bursts. <i>Astrophysical Journal</i> , 1995 , 453, 959	4.7	39
90	Mammalian sleep dynamics: how diverse features arise from a common physiological framework. <i>PLoS Computational Biology</i> , 2010 , 6, e1000826	5	38
89	Constraints on Nonlinear and Stochastic Growth Theories for Type III Solar Radio Bursts from the Corona to 1 AU. <i>Astrophysical Journal</i> , 1998 , 509, 471-481	4.7	38
88	Thermal and driven stochastic growth of Langmuir waves in the solar wind and Earth's foreshock. <i>Geophysical Research Letters</i> , 2000 , 27, 61-64	4.9	37
87	Theoretical modeling for the stereo mission. <i>Space Science Reviews</i> , 2008 , 136, 565-604	7.5	36
86	Relations between the geometry of cortical gyrification and white-matter network architecture. <i>Brain Connectivity</i> , 2014 , 4, 112-30	2.7	35
85	Mode conversion of Langmuir to electromagnetic waves at magnetic field-aligned density inhomogeneities: Simulations, theory, and applications to the solar wind and the corona. <i>Physics of Plasmas</i> , 2008 , 15, 102110	2.1	35
84	A physiologically based model of orexinergic stabilization of sleep and wake. <i>PLoS ONE</i> , 2014 , 9, e91982	3.7	34
83	Exploring sleepiness and entrainment on permanent shift schedules in a physiologically based model. <i>Journal of Biological Rhythms</i> , 2012 , 27, 91-102	3.2	32
82	Numerical modeling of type III solar radio bursts in the inhomogeneous solar corona and interplanetary medium. <i>Physics of Plasmas</i> , 2006 , 13, 092902	2.1	32

81	Using geometry to uncover relationships between isotropy, homogeneity, and modularity in cortical connectivity. <i>Brain Connectivity</i> , 2013 , 3, 423-37	2.7	31
80	Evaluating the performance of Kalman-filter-based EEG source localization. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 122-36	5	31
79	DIRECT RADIO PROBING AND INTERPRETATION OF THE SUN'S PLASMA DENSITY PROFILE. <i>Astrophysical Journal</i> , 2009 , 706, L265-L269	4.7	31
78	Simulations of coronal type III solar radio bursts: 2. Dynamic spectrum for typical parameters. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		29
77	Maximum Langmuir fields in planetary foreshocks determined from the electrostatic decay threshold. <i>Geophysical Research Letters</i> , 1995 , 22, 2657-2660	4.9	29
76	Fundamental and harmonic radiation in type III solar radio bursts. <i>Solar Physics</i> , 1994 , 154, 335-360	2.6	29
75	strong Langmuir turbulence at Jupiter?. <i>Geophysical Research Letters</i> , 1992 , 19, 1069-1072	4.9	29
74	Inconsistency of Ulysses millisecond Langmuir spikes with wave collapse in type III radio sources. <i>Geophysical Research Letters</i> , 1995 , 22, 3437-3440	4.9	26
73	Neural masses and fields: modeling the dynamics of brain activity. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 149	3.5	24
72	Adaptation to shift work: physiologically based modeling of the effects of lighting and shifts' start time. <i>PLoS ONE</i> , 2013 , 8, e53379	3.7	24
71	Stochastic growth of localized plasma waves. <i>Physics of Plasmas</i> , 2001 , 8, 2394-2400	2.1	24
70	AUTOMATIC RECOGNITION OF CORONAL TYPE II RADIO BURSTS: THE AUTOMATED RADIO BURST IDENTIFICATION SYSTEM METHOD AND FIRST OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2010 , 710, L58-L62	7.9	22
69	Variability of model-free and model-based quantitative measures of EEG. <i>Journal of Integrative Neuroscience</i> , 2007 , 6, 279-307	1.5	22
68	Frequency Fine Structures of Type III Bursts Due to Localized Medium-Scale Density Structures Along Paths of Type III Beams. <i>Solar Physics</i> , 2012 , 279, 173-196	2.6	20
67	DECIMETRIC TYPE III BURSTS: GENERATION AND PROPAGATION. <i>Astrophysical Journal Letters</i> , 2011 , 738, L9	7.9	20
66	Simulations of coronal type III solar radio bursts: 3. Effects of beam and coronal parameters. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		20
65	Neurophysiologically-based mean-field modelling of tonic cortical activity in post-traumatic stress disorder (PTSD), schizophrenia, first episode schizophrenia and attention deficit hyperactivity disorder (ADHD). <i>Journal of Integrative Neuroscience</i> , 2004 , 3, 453-87	1.5	20
64	Stability and structural constraints of random brain networks with excitatory and inhibitory neural populations. <i>Journal of Computational Neuroscience</i> , 2009 , 27, 81-101	1.4	19

63	Automatic recognition of type III solar radio bursts: Automated Radio Burst Identification System method and first observations. <i>Space Weather</i> , 2009 , 7, n/a-n/a	3.7	19
62	Wave damping as a critical phenomenon. <i>Physics of Plasmas</i> , 2004 , 11, 4649-4661	2.1	19
61	Spectral characterization of hierarchical network modularity and limits of modularity detection. <i>PLoS ONE</i> , 2013 , 8, e54383	3.7	18
60	EFFECTS OF SPATIAL VARIATIONS IN CORONAL ELECTRON AND ION TEMPERATURES ON TYPE III BURSTS. II. VARIATIONS IN ION TEMPERATURE. <i>Astrophysical Journal</i> , 2011 , 730, 21	4.7	18
59	New regimes of stochastic wave growth. <i>Physical Review Letters</i> , 2004 , 93, 235003	7.4	18
58	Progress on Coronal, Interplanetary, Foreshock, and Outer Heliospheric Radio Emissions. <i>Publications of the Astronomical Society of Australia</i> , 2000 , 17, 22-34	5.5	18
57	NFTsim: Theory and Simulation of Multiscale Neural Field Dynamics. <i>PLoS Computational Biology</i> , 2018 , 14, e1006387	5	18
56	Deconvolution analysis of target evoked potentials. <i>Journal of Neuroscience Methods</i> , 2009 , 179, 101-103		17
55	Quantitative study of the sleep onset period via detrended fluctuation analysis: normal vs. narcoleptic subjects. <i>Clinical Neurophysiology</i> , 2009 , 120, 1245-51	4.3	17
54	Effects of rotation interval on sleepiness and circadian dynamics on forward rotating 3-shift systems. <i>Journal of Biological Rhythms</i> , 2014 , 29, 60-70	3.2	16
53	Automatic recognition of complex magnetic regions on the Sun in GONG magnetogram images and prediction of flares: Techniques for the flare warning program Flarecast. <i>Space Weather</i> , 2011 , 9, n/a-n/a ^{3.7}		15
52	Quasilinear-based simulations of bidirectional type III bursts. <i>Journal of Geophysical Research</i> , 2008 , 113,		15
51	Sleep Propensity under Forced Desynchrony in a Model of Arousal State Dynamics. <i>Journal of Biological Rhythms</i> , 2016 , 31, 498-508	3.2	15
50	Prediction of Cognitive Performance and Subjective Sleepiness Using a Model of Arousal Dynamics. <i>Journal of Biological Rhythms</i> , 2018 , 33, 203-218	3.2	14
49	Evidence for Wind-like Regions, Acceleration of Shocks in the Deep Corona, and Relevance of 1/ f Dynamic Spectra to Coronal Type II Bursts. <i>Astrophysical Journal</i> , 2008 , 677, L129-L132	4.7	14
48	Modeling melanopsin-mediated effects of light on circadian phase, melatonin suppression, and subjective sleepiness. <i>Journal of Pineal Research</i> , 2020 , 69, e12681	10.4	13
47	New constraints and energy conversion efficiencies for plasma emission. <i>Physics of Plasmas</i> , 2003 , 10, 3315-3320	2.1	13
46	The balanced and introspective brain. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	12

45	Unified theory of monochromatic and broadband modulational and decay instabilities of Langmuir waves. <i>Physics of Plasmas</i> , 2002 , 9, 4149-4159	2.1	12
44	New regimes of stochastic wave growth: Theory, simulation, and comparison with data. <i>Physics of Plasmas</i> , 2006 , 13, 112103	2.1	11
43	Stochastic growth theory of spatially-averaged distributions of Langmuir Fields in Earth's foreshock. <i>Geophysical Research Letters</i> , 2001 , 28, 3569-3572	4.9	11
42	Suppression of Parkinsonian Beta Oscillations by Deep Brain Stimulation: Determination of Effective Protocols. <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 98	3.5	11
41	Quantitative theory of deep brain stimulation of the subthalamic nucleus for the suppression of pathological rhythms in Parkinson's disease. <i>PLoS Computational Biology</i> , 2018 , 14, e1006217	5	10
40	Dynamic pattern formation and collisions in networks of excitable elements. <i>Physical Review E</i> , 2012 , 85, 055101	2.4	10
39	Electrostatic decay in a weakly magnetized plasma. <i>Physical Review Letters</i> , 2013 , 110, 185001	7.4	10
38	Stability constraints on large-scale structural brain networks. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 31	3.5	10
37	Age trends in auditory oddball evoked potentials via component scoring and deconvolution. <i>Clinical Neurophysiology</i> , 2010 , 121, 962-76	4.3	10
36	RIEGER-TYPE PERIODICITY IN THE OCCURRENCE OF SOLAR TYPE III RADIO BURSTS. <i>Astrophysical Journal Letters</i> , 2012 , 754, L28	7.9	10
35	Langmuir Ensembles and electrostatic decay in the solar wind. <i>Geophysical Research Letters</i> , 2013 , 40, 1934-1939	4.9	9
34	Terrestrial foreshock Langmuir waves: STEREO observations, theoretical modeling, and quasi-linear simulations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		9
33	EVIDENCE FOR GENTLY SLOPING PLASMA DENSITY PROFILES IN THE DEEP CORONA: TYPE III OBSERVATIONS. <i>Astrophysical Journal</i> , 2010 , 724, 1099-1107	4.7	9
32	Laboratory evidence for stochastic plasma-wave growth. <i>Physical Review Letters</i> , 2007 , 99, 205004	7.4	9
31	Intrinsic variability and field statistics for the Vela pulsar -- III. Two-component fits and detailed assessment of stochastic growth theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 343, 523-532	4.3	9
30	Neural Field Theory of Corticothalamic Prediction With Control Systems Analysis. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 334	3.3	9
29	Firing responses of bursting neurons with delayed feedback. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 61-71	1.4	8
28	Simulation of Energetic Electron Bursts Upstream of Re-Forming Shocks. <i>Astrophysical Journal</i> , 2007 , 671, 439-446	4.7	8

27	SOLAR CYCLE VARIATIONS OF THE OCCURRENCE OF CORONAL TYPE III RADIO BURSTS AND A NEW SOLAR ACTIVITY INDEX. <i>Astrophysical Journal Letters</i> , 2011 , 736, L20	7.9	7
26	Numerical simulation of electron distributions upstream and downstream of high Mach number quasi-perpendicular collisionless shocks. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		7
25	Long term followup of aortic root size after repair of tetralogy of Fallot. <i>International Journal of Cardiology</i> , 2014 , 177, 136-8	3.2	6
24	Hybrid simulation of reforming shocks with electron mass and pressure tensor effects. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	6
23	Quasilinear dynamics of a cloud of hot electrons propagating through a plasma in the presence of an externally applied uniform electric field. <i>Physics of Plasmas</i> , 2007 , 14, 122902	2.1	6
22	Neural Field Theory of Corticothalamic Attention With Control System Analysis. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1240	5.1	5
21	Dynamic patterns and their interactions in networks of excitable elements. <i>Physical Review E</i> , 2013 , 88, 042821	2.4	3
20	Thalamocortical changes in major depression probed by deconvolution and physiology-based modeling. <i>NeuroImage</i> , 2011 , 54, 2672-82	7.9	3
19	Coupled Langmuir and nonlinear ion acoustic waves in the presence of non-thermal electrons. <i>Journal of Plasma Physics</i> , 2009 , 75, 193-202	2.7	3
18	Spatiotemporal correlation functions in beam-driven plasmas with fluctuations. <i>Physics of Plasmas</i> , 2007 , 14, 122111	2.1	3
17	Towards a quantitative theory for 28 kHz radio emission from beyond the heliopause. <i>Advances in Space Research</i> , 2004 , 34, 88-93	2.4	3
16	Neural Field Theory of Evoked Response Potentials With Attentional Gain Dynamics. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 293	3.3	3
15	Feasibility of functional magnetic resonance imaging of ocular dominance and orientation preference in primary visual cortex. <i>PLoS Computational Biology</i> , 2019 , 15, e1007418	5	2
14	Propagation of radiation in fluctuating multiscale plasmas. II. Kinetic simulations. <i>Physics of Plasmas</i> , 2012 , 19, 113304	2.1	2
13	Requirements for testing stochastic wave growth in laboratory plasmas using beam-plasma experiments. <i>Plasma Physics and Controlled Fusion</i> , 2008 , 50, 074019	2	2
12	Magnetised Wave Collapse in Solar System Plasmas. <i>Publications of the Astronomical Society of Australia</i> , 1993 , 10, 283-286	5.5	2
11	Brain dynamics and structure-function relationships via spectral factorization and the transfer function. <i>NeuroImage</i> , 2021 , 235, 117989	7.9	2
10	Propagation of radiation in fluctuating multiscale plasmas. I. Kinetic theory. <i>Physics of Plasmas</i> , 2012 , 19, 113303	2.1	1

9	Quantitative modeling of multiscale neural activity 2006 ,		1
8	Analytic Model for Feature Maps in the Primary Visual Cortex.. <i>Frontiers in Computational Neuroscience</i> , 2022 , 16, 659316	3.5	1
7	Forced Wakefulness for Entrainment to Permanent Shift Work: A Computational Study 2013 , 105-111		1
6	Modal-Polar Representation of Evoked Response Potentials in Multiple Arousal States. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 642479	3.3	1
5	Determination of Dynamic Brain Connectivity via Spectral Analysis. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 655576	3.3	1
4	Clustering and Modularity in Self-Organized Networks. <i>Emergence, Complexity and Computation</i> , 2014 , 455-468	0.1	
3	Cortical Depth-Dependent Modeling of Visual Hemodynamic Responses.. <i>Journal of Theoretical Biology</i> , 2021 , 110978	2.3	
2	From Spiking Neurons to Neural Fields: Bridging the Gap to Achieve Faster Simulations of Neural Systems 2013 , 83-89		
1	Neural Field Theory of Evoked Response Sequences and Mismatch Negativity With Adaptation. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 655505	3.3	