

Steven L Bressler

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.

78
papers

9,371
citations

39
h-index

84
g-index

84
ext. papers

10,558
ext. citations

5.9
avg, IF

6.49
L-index

#	Paper	IF	Citations
78	Spectral Methods in Neural Data Analysis: Overview 2022 , 105-107		
77	A symbolic information approach to characterize response-related differences in cortical activity during a Go/No-Go task. <i>Nonlinear Dynamics</i> , 2021 , 104, 4401	5	
76	Organization of areal connectivity in the monkey frontoparietal network. <i>NeuroImage</i> , 2021 , 241, 118414.9	4.9	0
75	Directed Interregional Brain Interactions 2021 , 75-92		
74	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , 2020 , 218, 116796	7.9	9
73	From nodes to networks: How methods for defining nodes influence inferences regarding network interactions. <i>Human Brain Mapping</i> , 2019 , 40, 1458-1469	5.9	3
72	Response Hand and Motor Set Differentially Modulate the Connectivity of Brain Pathways During Simple Uni-manual Motor Behavior. <i>Brain Topography</i> , 2018 , 31, 985-1000	4.3	5
71	Granger-Geweke causality: Estimation and interpretation. <i>NeuroImage</i> , 2018 , 175, 460-463	7.9	17
70	Top-down beta oscillatory signaling conveys behavioral context in early visual cortex. <i>Scientific Reports</i> , 2018 , 8, 6991	4.9	28
69	Anticipatory Top-Down Interactive Neural Dynamics. <i>Advances in Cognitive Neurodynamics</i> , 2018 , 135-142		0
68	Top-down cortical interactions in visuospatial attention. <i>Brain Structure and Function</i> , 2017 , 222, 3127-3145	4.5	20
67	Potentiation of motor sub-networks for motor control but not working memory: Interaction of dACC and SMA revealed by resting-state directed functional connectivity. <i>PLoS ONE</i> , 2017 , 12, e0172531 ^{3.7}	3.7	26
66	Commentary by Steven L. Bressler. <i>Studies in Systems, Decision and Control</i> , 2016 , 127-134	0.8	
65	Coordination Dynamics in Cognitive Neuroscience. <i>Frontiers in Neuroscience</i> , 2016 , 10, 397	5.1	34
64	Inferring the Dysconnection Syndrome in Schizophrenia: Interpretational Considerations on Methods for the Network Analyses of fMRI Data. <i>Frontiers in Psychiatry</i> , 2016 , 7, 132	5	25
63	Set-Related Neurocognitive Networks. <i>Advances in Cognitive Neurodynamics</i> , 2015 , 111-116		
62	Foundational perspectives on causality in large-scale brain networks. <i>Physics of Life Reviews</i> , 2015 , 15, 107-23	2.1	31

61	Past makes future: role of pFC in prediction. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 639-54	3.1	34
60	Interareal oscillatory synchronization in top-down neocortical processing. <i>Current Opinion in Neurobiology</i> , 2015 , 31, 62-6	7.6	88
59	Dorsal anterior cingulate cortex modulates supplementary motor area in coordinated unimanual motor behavior. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 309	3.3	53
58	A symbolic information approach to determine anticipated and delayed synchronization in neuronal circuit models. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	18
57	Reversal of theta rhythm flow through intact hippocampal circuits. <i>Nature Neuroscience</i> , 2014 , 17, 1362-70.5	7.9	51
56	The function of neurocognitive networks. Comment on "Understanding brain networks and brain organization" by Pessoa. <i>Physics of Life Reviews</i> , 2014 , 11, 438-9	2.1	1
55	Modeling positive Granger causality and negative phase lag between cortical areas. <i>NeuroImage</i> , 2014 , 99, 411-8	7.9	48
54	Neurocognitive networks: findings, models, and theory. <i>Neuroscience and Biobehavioral Reviews</i> , 2012 , 36, 2232-47	9	52
53	Cognit activation: a mechanism enabling temporal integration in working memory. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 207-18	14	95
52	Measuring Granger causality between cortical regions from voxelwise fMRI BOLD signals with LASSO. <i>PLoS Computational Biology</i> , 2012 , 8, e1002513	5	40
51	Wiener-Granger causality: a well established methodology. <i>NeuroImage</i> , 2011 , 58, 323-9	7.9	530
50	Event-Related Potentials of the Cerebral Cortex. <i>NeuroMethods</i> , 2011 , 169-190	0.4	5
49	Dynamic activation of frontal, parietal, and sensory regions underlying anticipatory visual spatial attention. <i>Journal of Neuroscience</i> , 2011 , 31, 13880-9	6.6	50
48	Large-scale brain networks in cognition: emerging methods and principles. <i>Trends in Cognitive Sciences</i> , 2010 , 14, 277-90	14	1510
47	Identifying true cortical interactions in MEG using the nulling beamformer. <i>NeuroImage</i> , 2010 , 49, 3161-74.9	7.9	71
46	LARGE-SCALE CORTICAL NETWORK COORDINATION: A PROPOSAL FOR THE NEURAL SUBSTRATE OF EXPECTANCY. <i>New Mathematics and Natural Computation</i> , 2009 , 05, 47-59	0.6	1
45	ASEO: a method for the simultaneous estimation of single-trial event-related potentials and ongoing brain activities. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 111-21	5	40
44	Dynamics on networks: assessing functional connectivity with Granger causality. <i>Computational and Mathematical Organization Theory</i> , 2009 , 15, 329-350	2.1	9

43	Prestimulus cortical activity is correlated with speed of visuomotor processing. <i>Journal of Cognitive Neuroscience</i> , 2008 , 20, 1915-25	3.1	91
42	Top-down control of human visual cortex by frontal and parietal cortex in anticipatory visual spatial attention. <i>Journal of Neuroscience</i> , 2008 , 28, 10056-61	6.6	408
41	BSMART: a Matlab/C toolbox for analysis of multichannel neural time series. <i>Neural Networks</i> , 2008 , 21, 1094-104	9.1	138
40	Cortical functional network organization from autoregressive modeling of local field potential oscillations. <i>Statistics in Medicine</i> , 2007 , 26, 3875-85	2.3	61
39	Granger causality between multiple interdependent neurobiological time series: blockwise versus pairwise methods. <i>International Journal of Neural Systems</i> , 2007 , 17, 71-8	6.2	53
38	Large-scale visuomotor integration in the cerebral cortex. <i>Cerebral Cortex</i> , 2007 , 17, 44-62	5.1	91
37	The Role of Neural Context in Large-Scale Neurocognitive Network Operations. <i>Understanding Complex Systems</i> , 2007 , 403-419	0.4	28
36	The Formation of Global Neurocognitive State 2007 , 61-72		14
35	Stochastic modeling of neurobiological time series: power, coherence, Granger causality, and separation of evoked responses from ongoing activity. <i>Chaos</i> , 2006 , 16, 026113	3.3	26
34	Operational principles of neurocognitive networks. <i>International Journal of Psychophysiology</i> , 2006 , 60, 139-48	2.9	205
33	Differentially variable component analysis: Identifying multiple evoked components using trial-to-trial variability. <i>Journal of Neurophysiology</i> , 2006 , 95, 3257-76	3.2	33
32	Event-Related Potentials 2006 ,		10
31	Frequency decomposition of conditional Granger causality and application to multivariate neural field potential data. <i>Journal of Neuroscience Methods</i> , 2006 , 150, 228-37	3	230
30	Inferential constraint sets in the organization of visual expectation. <i>Neuroinformatics</i> , 2004 , 2, 227-38	3.2	22
29	Beta oscillations in a large-scale sensorimotor cortical network: directional influences revealed by Granger causality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9849-54	11.5	769
28	Cortical coordination dynamics and the disorganization syndrome in schizophrenia. <i>Neuropsychopharmacology</i> , 2003 , 28 Suppl 1, S35-9	8.7	88
27	Context rules. <i>Behavioral and Brain Sciences</i> , 2003 , 26, 85-85	0.9	6
26	Estimation of single-trial multicomponent ERPs: differentially variable component analysis (dVCA). <i>Biological Cybernetics</i> , 2003 , 89, 426-38	2.8	61

25	Temporal dynamics of attention-modulated neuronal synchronization in macaque V4. <i>Neurocomputing</i> , 2003 , 52-54, 481-487	5.4	14
24	Understanding Cognition Through Large-Scale Cortical Networks. <i>Current Directions in Psychological Science</i> , 2002 , 11, 58-61	6.5	104
23	Synchronized activity in prefrontal cortex during anticipation of visuomotor processing. <i>NeuroReport</i> , 2002 , 13, 2011-5	1.7	91
22	Trial-to-trial variability of cortical evoked responses: implications for the analysis of functional connectivity. <i>Clinical Neurophysiology</i> , 2002 , 113, 206-26	4.3	171
21	Evaluating causal relations in neural systems: granger causality, directed transfer function and statistical assessment of significance. <i>Biological Cybernetics</i> , 2001 , 85, 145-57	2.8	702
20	Variability and interdependence of local field potentials: Effects of gain modulation and nonstationarity. <i>Neurocomputing</i> , 2001 , 38-40, 983-992	5.4	3
19	The detection of cognitive state transitions by stability changes in event-related cortical field potentials. <i>Neurocomputing</i> , 2001 , 38-40, 1423-1428	5.4	3
18	Temporal dynamics of information flow in the cerebral cortex. <i>Neurocomputing</i> , 2001 , 38-40, 1429-1435	5.4	20
17	Cortical coordination dynamics and cognition. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 26-36	14	644
16	Causal influences in primate cerebral cortex during visual pattern discrimination. <i>NeuroReport</i> , 2000 , 11, 2875-80	1.7	61
15	On the tracking of dynamic functional relations in monkey cerebral cortex. <i>Neurocomputing</i> , 2000 , 32-33, 891-896	5.4	1
14	Short-window spectral analysis of cortical event-related potentials by adaptive multivariate autoregressive modeling: data preprocessing, model validation, and variability assessment. <i>Biological Cybernetics</i> , 2000 , 83, 35-45	2.8	437
13	Investigation of cooperative cortical dynamics by multivariate autoregressive modeling of event-related local field potentials. <i>Neurocomputing</i> , 1999 , 26-27, 625-631	5.4	12
12	The Dynamic Manifestation of Cognitive Structures in the Cerebral Cortex 1999 , 121-126		1
11	Interareal synchronization in the visual cortex. <i>Behavioural Brain Research</i> , 1996 , 76, 37-49	3.4	87
10	Large-scale integration of cortical information processing. <i>Advances in Psychology</i> , 1996 , 53-68		
9	Phase transitions in spatiotemporal patterns of brain activity and behavior. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 84, 626-634	3.3	119
8	Large-scale cortical networks and cognition. <i>Brain Research Reviews</i> , 1995 , 20, 288-304		463

7	Episodic multiregional cortical coherence at multiple frequencies during visual task performance. <i>Nature</i> , 1993 , 366, 153-6	50.4	544
6	Inter-area Synchronization in Macaque Neocortex During a Visual Pattern Discrimination Task 1993 , 515-522		5
5	Relation of olfactory bulb and cortex. I. Spatial variation of bulbocortical interdependence. <i>Brain Research</i> , 1987 , 409, 285-93	3.7	81
4	Relation of olfactory bulb and cortex. II. Model for driving of cortex by bulb. <i>Brain Research</i> , 1987 , 409, 294-301	3.7	44
3	Spatial organization of EEGs from olfactory bulb and cortex. <i>Electroencephalography and Clinical Neurophysiology</i> , 1984 , 57, 270-6		75
2	Frequency analysis of olfactory system EEG in cat, rabbit, and rat. <i>Electroencephalography and Clinical Neurophysiology</i> , 1980 , 50, 19-24		291
1	Top-Down Beta Oscillatory Signaling Conveys Behavioral Context to Primary Visual Cortex		3