

# Steven L Bressler

## List of Publications by Citations

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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	Large-scale brain networks in cognition: emerging methods and principles. <i>Trends in Cognitive Sciences</i> , <b>2010</b> , 14, 277-90	14	1510
77	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> , <b>2004</b> , 101, 9849-54	11.5	769
76	Evaluating causal relations in neural systems: granger causality, directed transfer function and statistical assessment of significance. <i>Biological Cybernetics</i> , <b>2001</b> , 85, 145-57	2.8	702
75	Cortical coordination dynamics and cognition. <i>Trends in Cognitive Sciences</i> , <b>2001</b> , 5, 26-36	14	644
74	Episodic multiregional cortical coherence at multiple frequencies during visual task performance. <i>Nature</i> , <b>1993</b> , 366, 153-6	50.4	544
73	Wiener-Granger causality: a well established methodology. <i>NeuroImage</i> , <b>2011</b> , 58, 323-9	7.9	530
72	Large-scale cortical networks and cognition. <i>Brain Research Reviews</i> , <b>1995</b> , 20, 288-304		463
71	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> , <b>2000</b> , 83, 35-45	2.8	437
70	Top-down control of human visual cortex by frontal and parietal cortex in anticipatory visual spatial attention. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 10056-61	6.6	408
69	Frequency analysis of olfactory system EEG in cat, rabbit, and rat. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1980</b> , 50, 19-24		291
68	Frequency decomposition of conditional Granger causality and application to multivariate neural field potential data. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 150, 228-37	3	230
67	Operational principles of neurocognitive networks. <i>International Journal of Psychophysiology</i> , <b>2006</b> , 60, 139-48	2.9	205
66	Trial-to-trial variability of cortical evoked responses: implications for the analysis of functional connectivity. <i>Clinical Neurophysiology</i> , <b>2002</b> , 113, 206-26	4.3	171
65	BSMART: a Matlab/C toolbox for analysis of multichannel neural time series. <i>Neural Networks</i> , <b>2008</b> , 21, 1094-104	9.1	138
64	Phase transitions in spatiotemporal patterns of brain activity and behavior. <i>Physica D: Nonlinear Phenomena</i> , <b>1995</b> , 84, 626-634	3.3	119
63	Understanding Cognition Through Large-Scale Cortical Networks. <i>Current Directions in Psychological Science</i> , <b>2002</b> , 11, 58-61	6.5	104
62	Cognit activation: a mechanism enabling temporal integration in working memory. <i>Trends in Cognitive Sciences</i> , <b>2012</b> , 16, 207-18	14	95

61	Prestimulus cortical activity is correlated with speed of visuomotor processing. <i>Journal of Cognitive Neuroscience</i> , <b>2008</b> , 20, 1915-25	3.1	91
60	Large-scale visuomotor integration in the cerebral cortex. <i>Cerebral Cortex</i> , <b>2007</b> , 17, 44-62	5.1	91
59	Synchronized activity in prefrontal cortex during anticipation of visuomotor processing. <i>NeuroReport</i> , <b>2002</b> , 13, 2011-5	1.7	91
58	Interareal oscillatory synchronization in top-down neocortical processing. <i>Current Opinion in Neurobiology</i> , <b>2015</b> , 31, 62-6	7.6	88
57	Cortical coordination dynamics and the disorganization syndrome in schizophrenia. <i>Neuropsychopharmacology</i> , <b>2003</b> , 28 Suppl 1, S35-9	8.7	88
56	Interareal synchronization in the visual cortex. <i>Behavioural Brain Research</i> , <b>1996</b> , 76, 37-49	3.4	87
55	Relation of olfactory bulb and cortex. I. Spatial variation of bulbocortical interdependence. <i>Brain Research</i> , <b>1987</b> , 409, 285-93	3.7	81
54	Spatial organization of EEGs from olfactory bulb and cortex. <i>Electroencephalography and Clinical Neurophysiology</i> , <b>1984</b> , 57, 270-6		75
53	Identifying true cortical interactions in MEG using the nulling beamformer. <i>NeuroImage</i> , <b>2010</b> , 49, 3161-74	7.9	71
52	Cortical functional network organization from autoregressive modeling of local field potential oscillations. <i>Statistics in Medicine</i> , <b>2007</b> , 26, 3875-85	2.3	61
51	Estimation of single-trial multicomponent ERPs: differentially variable component analysis (dVCA). <i>Biological Cybernetics</i> , <b>2003</b> , 89, 426-38	2.8	61
50	Causal influences in primate cerebral cortex during visual pattern discrimination. <i>NeuroReport</i> , <b>2000</b> , 11, 2875-80	1.7	61
49	Dorsal anterior cingulate cortex modulates supplementary motor area in coordinated unimanual motor behavior. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 309	3.3	53
48	Granger causality between multiple interdependent neurobiological time series: blockwise versus pairwise methods. <i>International Journal of Neural Systems</i> , <b>2007</b> , 17, 71-8	6.2	53
47	Neurocognitive networks: findings, models, and theory. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2012</b> , 36, 2232-47	9	52
46	Reversal of theta rhythm flow through intact hippocampal circuits. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 1362-70	7.5	51
45	Dynamic activation of frontal, parietal, and sensory regions underlying anticipatory visual spatial attention. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 13880-9	6.6	50
44	Modeling positive Granger causality and negative phase lag between cortical areas. <i>NeuroImage</i> , <b>2014</b> , 99, 411-8	7.9	48

43	Relation of olfactory bulb and cortex. II. Model for driving of cortex by bulb. <i>Brain Research</i> , <b>1987</b> , 409, 294-301	3.7	44
42	ASEO: a method for the simultaneous estimation of single-trial event-related potentials and ongoing brain activities. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 111-21	5	40
41	Measuring Granger causality between cortical regions from voxelwise fMRI BOLD signals with LASSO. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002513	5	40
40	Past makes future: role of pFC in prediction. <i>Journal of Cognitive Neuroscience</i> , <b>2015</b> , 27, 639-54	3.1	34
39	Coordination Dynamics in Cognitive Neuroscience. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 397	5.1	34
38	Differentially variable component analysis: Identifying multiple evoked components using trial-to-trial variability. <i>Journal of Neurophysiology</i> , <b>2006</b> , 95, 3257-76	3.2	33
37	Foundational perspectives on causality in large-scale brain networks. <i>Physics of Life Reviews</i> , <b>2015</b> , 15, 107-23	2.1	31
36	Top-down beta oscillatory signaling conveys behavioral context in early visual cortex. <i>Scientific Reports</i> , <b>2018</b> , 8, 6991	4.9	28
35	The Role of Neural Context in Large-Scale Neurocognitive Network Operations. <i>Understanding Complex Systems</i> , <b>2007</b> , 403-419	0.4	28
34	Potential 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> , <b>2017</b> , 12, e0172531	3.7	26
33	Stochastic modeling of neurobiological time series: power, coherence, Granger causality, and separation of evoked responses from ongoing activity. <i>Chaos</i> , <b>2006</b> , 16, 026113	3.3	26
32	Inferring the Dysconnection Syndrome in Schizophrenia: Interpretational Considerations on Methods for the Network Analyses of fMRI Data. <i>Frontiers in Psychiatry</i> , <b>2016</b> , 7, 132	5	25
31	Inferential constraint sets in the organization of visual expectation. <i>Neuroinformatics</i> , <b>2004</b> , 2, 227-38	3.2	22
30	Top-down cortical interactions in visuospatial attention. <i>Brain Structure and Function</i> , <b>2017</b> , 222, 3127-3145	4.5	20
29	Temporal dynamics of information flow in the cerebral cortex. <i>Neurocomputing</i> , <b>2001</b> , 38-40, 1429-1435	5.4	20
28	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> , <b>2015</b> , 373,	3	18
27	Granger-Geweke causality: Estimation and interpretation. <i>NeuroImage</i> , <b>2018</b> , 175, 460-463	7.9	17
26	Temporal dynamics of attention-modulated neuronal synchronization in macaque V4. <i>Neurocomputing</i> , <b>2003</b> , 52-54, 481-487	5.4	14

25	The Formation of Global Neurocognitive State <b>2007</b> , 61-72		14
24	Investigation of cooperative cortical dynamics by multivariate autoregressive modeling of event-related local field potentials. <i>Neurocomputing</i> , <b>1999</b> , 26-27, 625-631	5.4	12
23	Event-Related Potentials <b>2006</b> ,		10
22	Measuring directed functional connectivity using non-parametric directionality analysis: Validation and comparison with non-parametric Granger Causality. <i>NeuroImage</i> , <b>2020</b> , 218, 116796	7.9	9
21	Dynamics on networks: assessing functional connectivity with Granger causality. <i>Computational and Mathematical Organization Theory</i> , <b>2009</b> , 15, 329-350	2.1	9
20	Context rules. <i>Behavioral and Brain Sciences</i> , <b>2003</b> , 26, 85-85	0.9	6
19	Response Hand and Motor Set Differentially Modulate the Connectivity of Brain Pathways During Simple Uni-manual Motor Behavior. <i>Brain Topography</i> , <b>2018</b> , 31, 985-1000	4.3	5
18	Event-Related Potentials of the Cerebral Cortex. <i>NeuroMethods</i> , <b>2011</b> , 169-190	0.4	5
17	Inter-area Synchronization in Macaque Neocortex During a Visual Pattern Discrimination Task <b>1993</b> , 515-522		5
16	Variability and interdependence of local field potentials: Effects of gain modulation and nonstationarity. <i>Neurocomputing</i> , <b>2001</b> , 38-40, 983-992	5.4	3
15	The detection of cognitive state transitions by stability changes in event-related cortical field potentials. <i>Neurocomputing</i> , <b>2001</b> , 38-40, 1423-1428	5.4	3
14	Top-Down Beta Oscillatory Signaling Conveys Behavioral Context to Primary Visual Cortex		3
13	From nodes to networks: How methods for defining nodes influence inferences regarding network interactions. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 1458-1469	5.9	3
12	The function of neurocognitive networks. Comment on "Understanding brain networks and brain organization" by Pessoa. <i>Physics of Life Reviews</i> , <b>2014</b> , 11, 438-9	2.1	1
11	LARGE-SCALE CORTICAL NETWORK COORDINATION: A PROPOSAL FOR THE NEURAL SUBSTRATE OF EXPECTANCY. <i>New Mathematics and Natural Computation</i> , <b>2009</b> , 05, 47-59	0.6	1
10	On the tracking of dynamic functional relations in monkey cerebral cortex. <i>Neurocomputing</i> , <b>2000</b> , 32-33, 891-896	5.4	1
9	The Dynamic Manifestation of Cognitive Structures in the Cerebral Cortex <b>1999</b> , 121-126		1
8	Anticipatory Top-Down Interactive Neural Dynamics. <i>Advances in Cognitive Neurodynamics</i> , <b>2018</b> , 135-142		0

- 7 Organization of areal connectivity in the monkey frontoparietal network. *NeuroImage*, **2021**, 241, 118414.9 ○
- 6 Set-Related Neurocognitive Networks. *Advances in Cognitive Neurodynamics*, **2015**, 111-116
- 5 Commentary by Steven L. Bressler. *Studies in Systems, Decision and Control*, **2016**, 127-134 ○.8
- 4 Large-scale integration of cortical information processing. *Advances in Psychology*, **1996**, 53-68
- 3 A symbolic information approach to characterize response-related differences in cortical activity during a Go/No-Go task. *Nonlinear Dynamics*, **2021**, 104, 4401 5
- 2 Directed Interregional Brain Interactions **2021**, 75-92
- 1 Spectral Methods in Neural Data Analysis: Overview **2022**, 105-107