

Robert W Cox

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

20,321
citations

81743

39
h-index

128067

60
g-index

78
all docs

78
docs citations

78
times ranked

16765
citing authors

#	ARTICLE	IF	CITATIONS
1	AFNI: Software for Analysis and Visualization of Functional Magnetic Resonance Neuroimages. Journal of Biomedical Informatics, 1996, 29, 162-173.	0.7	9,668
2	Software tools for analysis and visualization of fMRI data. , 1997, 10, 171-178.		907
3	Trouble at Rest: How Correlation Patterns and Group Differences Become Distorted After Global Signal Regression. Brain Connectivity, 2012, 2, 25-32.	0.8	805
4	fMRI Clustering in AFNI: False-Positive Rates Redux. Brain Connectivity, 2017, 7, 152-171.	0.8	707
5	Variability in the analysis of a single neuroimaging dataset by many teams. Nature, 2020, 582, 84-88.	13.7	634
6	Real-time 3D image registration for functional MRI. Magnetic Resonance in Medicine, 1999, 42, 1014-1018.	1.9	631
7	Mapping sources of correlation in resting state FMRI, with artifact detection and removal. NeuroImage, 2010, 52, 571-582.	2.1	481
8	Linear mixed-effects modeling approach to FMRI group analysis. NeuroImage, 2013, 73, 176-190.	2.1	371
9	A new method for improving functional-to-structural MRI alignment using local Pearson correlation. NeuroImage, 2009, 44, 839-848.	2.1	368
10	Two distinct forms of functional lateralization in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3435-44.	3.3	315
11	Fractionation of social brain circuits in autism spectrum disorders. Brain, 2012, 135, 2711-2725.	3.7	314
12	Real-Time Functional Magnetic Resonance Imaging. Magnetic Resonance in Medicine, 1995, 33, 230-236.	1.9	276
13	AFNI: What a long strange trip it's been. NeuroImage, 2012, 62, 743-747.	2.1	276
14	Effective Preprocessing Procedures Virtually Eliminate Distance-Dependent Motion Artifacts in Resting State FMRI. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.4	260
15	The perils of global signal regression for group comparisons: a case study of Autism Spectrum Disorders. Frontiers in Human Neuroscience, 2013, 7, 356.	1.0	260
16	Defining functional SMA and pre-SMA subregions in human MFC using resting state fMRI: Functional connectivity-based parcellation method. NeuroImage, 2010, 49, 2375-2386.	2.1	252
17	Event-related fMRI of tasks involving brief motion. Human Brain Mapping, 1999, 7, 106-114.	1.9	243
18	Graded Effects of Spatial and Featural Attention on Human Area MT and Associated Motion Processing Areas. Journal of Neurophysiology, 1997, 78, 516-520.	0.9	238

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19	Event-related fMRI contrast when using constant interstimulus interval: Theory and experiment. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 540-548.	1.9	220
20	Applications of multivariate modeling to neuroimaging group analysis: A comprehensive alternative to univariate general linear model. <i>NeuroImage</i> , 2014, 99, 571-588.	2.1	212
21	Detection versus Estimation in Event-Related fMRI: Choosing the Optimal Stimulus Timing. <i>NeuroImage</i> , 2002, 15, 252-264.	2.1	188
22	Correcting Brain-Wide Correlation Differences in Resting-State FMRI. <i>Brain Connectivity</i> , 2013, 3, 339-352.	0.8	183
23	fMRI clustering and false-positive rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3370-E3371.	3.3	182
24	Magnetic field changes in the human brain due to swallowing or speaking. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 55-60.	1.9	165
25	Optimized isotropic diffusion weighting. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 139-143.	1.9	155
26	Specialized Neural Systems Underlying Representations of Sequential Movements. <i>Journal of Cognitive Neuroscience</i> , 2000, 12, 56-77.	1.1	155
27	FMRI group analysis combining effect estimates and their variances. <i>NeuroImage</i> , 2012, 60, 747-765.	2.1	149
28	Analysis and use of FMRI response delays. <i>Human Brain Mapping</i> , 2001, 13, 74-93.	1.9	148
29	Experimental designs and processing strategies for fMRI studies involving overt verbal responses. <i>NeuroImage</i> , 2004, 23, 1046-1058.	2.1	146
30	Is the statistic value all we should care about in neuroimaging?. <i>NeuroImage</i> , 2017, 147, 952-959.	2.1	115
31	Functional Magnetic Resonance Imaging Mapping of the Motor Cortex in Patients with Cerebral Tumors. <i>Neurosurgery</i> , 1996, 39, 494-508.	0.6	113
32	Intraclass correlation: Improved modeling approaches and applications for neuroimaging. <i>Human Brain Mapping</i> , 2018, 39, 1187-1206.	1.9	107
33	Swallow-related cerebral cortical activity maps are not specific to deglutition. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, G531-G538.	1.6	82
34	Vector autoregression, structural equation modeling, and their synthesis in neuroimaging data analysis. <i>Computers in Biology and Medicine</i> , 2011, 41, 1142-1155.	3.9	82
35	Untangling the relatedness among correlations, Part II: Inter-subject correlation group analysis through linear mixed-effects modeling. <i>NeuroImage</i> , 2017, 147, 825-840.	2.1	76
36	Untangling the relatedness among correlations, part I: Nonparametric approaches to inter-subject correlation analysis at the group level. <i>NeuroImage</i> , 2016, 142, 248-259.	2.1	67

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37	Handling Multiplicity in Neuroimaging Through Bayesian Lenses with Multilevel Modeling. <i>Neuroinformatics</i> , 2019, 17, 515-545.	1.5	66
38	Simultaneous gradient-echo/spin-echo EPI of graded ischemia in human skeletal muscle. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 1106-1113.	1.9	59
39	Functional imaging analysis contest (FIAC) analysis according to AFNI and SUMA. <i>Human Brain Mapping</i> , 2006, 27, 417-424.	1.9	55
40	Equitable Thresholding and Clustering: A Novel Method for Functional Magnetic Resonance Imaging Clustering in AFNI. <i>Brain Connectivity</i> , 2019, 9, 529-538.	0.8	48
41	Direct reconstruction of non-Cartesian k-space data using a nonuniform fast Fourier transform. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 908-915.	1.9	43
42	A tail of two sides: Artificially doubled false positive rates in neuroimaging due to the sidedness choice with t -tests. <i>Human Brain Mapping</i> , 2019, 40, 1037-1043.	1.9	43
43	Detecting the subtle shape differences in hemodynamic responses at the group level. <i>Frontiers in Neuroscience</i> , 2015, 9, 375.	1.4	42
44	Electron paramagnetic resonance detection by time-locked subsampling. <i>Review of Scientific Instruments</i> , 1998, 69, 2622-2628.	0.6	39
45	Hyperbolic trade-off: The importance of balancing trial and subject sample sizes in neuroimaging. <i>NeuroImage</i> , 2022, 247, 118786.	2.1	35
46	Rotation of NMR images using the 2D chirp-z transform. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 253-256.	1.9	31
47	Task Dependence, Tissue Specificity, and Spatial Distribution of Widespread Activations in Large Single-Subject Functional MRI Datasets at 7T. <i>Cerebral Cortex</i> , 2015, 25, 4667-4677.	1.6	28
48	Quantifying Agreement between Anatomical and Functional Interhemispheric Correspondences in the Resting Brain. <i>PLoS ONE</i> , 2012, 7, e48847.	1.1	25
49	An integrative Bayesian approach to matrix-based analysis in neuroimaging. <i>Human Brain Mapping</i> , 2019, 40, 4072-4090.	1.9	24
50	Trial and error: A hierarchical modeling approach to test-retest reliability. <i>NeuroImage</i> , 2021, 245, 118647.	2.1	24
51	Open Environment for Multimodal Interactive Connectivity Visualization and Analysis. <i>Brain Connectivity</i> , 2016, 6, 109-121.	0.8	21
52	Fighting or embracing multiplicity in neuroimaging? neighborhood leverage versus global calibration. <i>NeuroImage</i> , 2020, 206, 116320.	2.1	21
53	To pool or not to pool: Can we ignore cross-trial variability in fMRI?. <i>NeuroImage</i> , 2021, 225, 117496.	2.1	21
54	Segmentation priors from local image properties: Without using bias field correction, location-based templates, or registration. <i>NeuroImage</i> , 2011, 55, 142-152.	2.1	17

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55	The effect of magnetization transfer on functional MRI signals. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 187-192.	1.9	14
56	Untangling the relatedness among correlations, part III: Inter-subject correlation analysis through Bayesian multilevel modeling for naturalistic scanning. <i>NeuroImage</i> , 2020, 216, 116474.	2.1	12
57	Temporal similarity perfusion mapping: A standardized and model-free method for detecting perfusion deficits in stroke. <i>PLoS ONE</i> , 2017, 12, e0185552.	1.1	9
58	Beyond linearity in neuroimaging: Capturing nonlinear relationships with application to longitudinal studies. <i>NeuroImage</i> , 2021, 233, 117891.	2.1	7
59	Commentary: Is the Statistic Value All We Should Care about in Neuroimaging?. , 0, , .		6
60	Fast detection and reduction of local transient artifacts in resting-state fMRI. <i>Computers in Biology and Medicine</i> , 2020, 120, 103742.	3.9	5
61	Event-related fMRI of tasks involving brief motion. , 1999, 7, 106.		4
62	Sources of Information Waste in Neuroimaging: Mishandling Structures, Thinking Dichotomously, and Over-Reducing Data. , 2022, 2021, .		2
63	k-space partition diagrams: A graphical tool for analysis of MRI pulse sequences. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 160-162.	1.9	1
64	Reproducibility of fMRI cortical activity during graded rectal distension. <i>Gastroenterology</i> , 2001, 120, A711.	0.6	0