Robert W Cox

List of Publications by Year
in descending order

64 papers	20,321 citations	76326 40 h-index	118850 62 g-index
78 all docs	78 docs citations	78 times ranked	16765 citing authors

#	Article	IF	Citations
1	Hyperbolic trade-off: The importance of balancing trial and subject sample sizes in neuroimaging. NeuroImage, 2022, 247, 118786.	4.2	35
2	Sources of Information Waste in Neuroimaging: Mishandling Structures, Thinking Dichotomously, and Over-Reducing Data. , 2022, 2021, .		2
3	To pool or not to pool: Can we ignore cross-trial variability in FMRI?. NeuroImage, 2021, 225, 117496.	4.2	21
4	Beyond linearity in neuroimaging: Capturing nonlinear relationships with application to longitudinal studies. NeuroImage, 2021, 233, 117891.	4.2	7
5	Trial and error: A hierarchical modeling approach to test-retest reliability. NeuroImage, 2021, 245, 118647.	4.2	24
6	Untangling the relatedness among correlations, part III: Inter-subject correlation analysis through Bayesian multilevel modeling for naturalistic scanning. NeuroImage, 2020, 216, 116474.	4.2	12
7	Fighting or embracing multiplicity in neuroimaging? neighborhood leverage versus global calibration. NeuroImage, 2020, 206, 116320.	4.2	21
8	Variability in the analysis of a single neuroimaging dataset by many teams. Nature, 2020, 582, 84-88.	27.8	634
9	Fast detection and reduction of local transient artifacts in resting-state fMRI. Computers in Biology and Medicine, 2020, 120, 103742.	7.0	5
10	Equitable Thresholding and Clustering: A Novel Method for Functional Magnetic Resonance Imaging Clustering in AFNI. Brain Connectivity, 2019, 9, 529-538.	1.7	48
11	An integrative Bayesian approach to matrix‐based analysis in neuroimaging. Human Brain Mapping, 2019, 40, 4072-4090.	3.6	24
12	Handling Multiplicity in Neuroimaging Through Bayesian Lenses with Multilevel Modeling. Neuroinformatics, 2019, 17, 515-545.	2.8	66
13	A tail of two sides: Artificially doubled false positive rates in neuroimaging due to the sidedness choice with t‐tests. Human Brain Mapping, 2019, 40, 1037-1043.	3.6	43
14	Intraclass correlation: Improved modeling approaches and applications for neuroimaging. Human Brain Mapping, 2018, 39, 1187-1206.	3.6	107
15	Untangling the relatedness among correlations, Part II: Inter-subject correlation group analysis through linear mixed-effects modeling. NeuroImage, 2017, 147, 825-840.	4.2	76
16	FMRI Clustering in AFNI: False-Positive Rates Redux. Brain Connectivity, 2017, 7, 152-171.	1.7	707
17	fMRI clustering and false-positive rates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3370-E3371.	7.1	182
18	Is the statistic value all we should care about in neuroimaging?. NeuroImage, 2017, 147, 952-959.	4.2	115

#	ARTICLE	IF	CITATIONS
19	Temporal similarity perfusion mapping: A standardized and model-free method for detecting perfusion deficits in stroke. PLoS ONE, 2017, 12, e0185552.	2.5	9
20	Untangling the relatedness among correlations, part I: Nonparametric approaches to inter-subject correlation analysis at the group level. NeuroImage, 2016, 142, 248-259.	4.2	67
21	Open Environment for Multimodal Interactive Connectivity Visualization and Analysis. Brain Connectivity, 2016, 6, 109-121.	1.7	21
22	Detecting the subtle shape differences in hemodynamic responses at the group level. Frontiers in Neuroscience, 2015, 9, 375.	2.8	42
23	Task Dependence, Tissue Specificity, and Spatial Distribution of Widespread Activations in Large Single-Subject Functional MRI Datasets at 7T. Cerebral Cortex, 2015, 25, 4667-4677.	2.9	28
24	Applications of multivariate modeling to neuroimaging group analysis: A comprehensive alternative to univariate general linear model. NeuroImage, 2014, 99, 571-588.	4.2	212
25	Linear mixed-effects modeling approach to FMRI group analysis. NeuroImage, 2013, 73, 176-190.	4.2	371
26	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.	7.1	315
27	Effective Preprocessing Procedures Virtually Eliminate Distance-Dependent Motion Artifacts in Resting State FMRI. Journal of Applied Mathematics, 2013, 2013, 1-9.	0.9	260
28	Correcting Brain-Wide Correlation Differences in Resting-State FMRI. Brain Connectivity, 2013, 3, 339-352.	1.7	183
29	The perils of global signal regression for group comparisons: a case study of Autism Spectrum Disorders. Frontiers in Human Neuroscience, 2013, 7, 356.	2.0	260
30	Trouble at Rest: How Correlation Patterns and Group Differences Become Distorted After Global Signal Regression. Brain Connectivity, 2012, 2, 25-32.	1.7	805
31	Fractionation of social brain circuits in autism spectrum disorders. Brain, 2012, 135, 2711-2725.	7.6	314
32	AFNI: What a long strange trip it's been. NeuroImage, 2012, 62, 743-747.	4.2	276
33	FMRI group analysis combining effect estimates and their variances. NeuroImage, 2012, 60, 747-765.	4.2	149
34	Quantifying Agreement between Anatomical and Functional Interhemispheric Correspondences in the Resting Brain. PLoS ONE, 2012, 7, e48847.	2.5	25
35	Segmentation priors from local image properties: Without using bias field correction, location-based templates, or registration. NeuroImage, 2011, 55, 142-152.	4.2	17
36	Vector autoregression, structural equation modeling, and their synthesis in neuroimaging data analysis. Computers in Biology and Medicine, 2011, 41, 1142-1155.	7.0	82

#	Article	IF	Citations
37	Mapping sources of correlation in resting state FMRI, with artifact detection and removal. NeuroImage, 2010, 52, 571-582.	4.2	481
38	Defining functional SMA and pre-SMA subregions in human MFC using resting state fMRI: Functional connectivity-based parcellation method. NeuroImage, 2010, 49, 2375-2386.	4.2	252
39	A new method for improving functional-to-structural MRI alignment using local Pearson correlation. NeuroImage, 2009, 44, 839-848.	4.2	368
40	Functional imaging analysis contest (FIAC) analysis according to AFNI and SUMA. Human Brain Mapping, 2006, 27, 417-424.	3.6	55
41	Experimental designs and processing strategies for fMRI studies involving overt verbal responses. NeuroImage, 2004, 23, 1046-1058.	4.2	146
42	Detection versus Estimation in Event-Related fMRI: Choosing the Optimal Stimulus Timing. NeuroImage, 2002, 15, 252-264.	4.2	188
43	Reproducibility of fMRI cortical activity during graded rectal distension. Gastroenterology, 2001, 120, A711.	1.3	0
44	Swallow-related cerebral cortical activity maps are not specific to deglutition. American Journal of Physiology - Renal Physiology, 2001, 280, G531-G538.	3.4	82
45	Direct reconstruction of non-Cartesian k-space data using a nonuniform fast Fourier transform. Magnetic Resonance in Medicine, 2001, 45, 908-915.	3.0	43
46	Analysis and use of FMRI response delays. Human Brain Mapping, 2001, 13, 74-93.	3.6	148
47	k-space partition diagrams: A graphical tool for analysis of MRI pulse sequences. Magnetic Resonance in Medicine, 2000, 43, 160-162.	3.0	1
48	Event-related fMRI contrast when using constant interstimulus interval: Theory and experiment. Magnetic Resonance in Medicine, 2000, 43, 540-548.	3.0	220
49	Specialized Neural Systems Underlying Representations of Sequential Movements. Journal of Cognitive Neuroscience, 2000, 12, 56-77.	2.3	155
50	Rotation of NMR images using the 2D chirp-z transform. Magnetic Resonance in Medicine, 1999, 41, 253-256.	3.0	31
51	Real-time 3D image registration for functional MRI. Magnetic Resonance in Medicine, 1999, 42, 1014-1018.	3.0	631
52	Event-related fMRI of tasks involving brief motion. Human Brain Mapping, 1999, 7, 106-114.	3.6	243
53	Eventâ€related fMRI of tasks involving brief motion. Human Brain Mapping, 1999, 7, 106-114.	3.6	4
54	Magnetic field changes in the human brain due to swallowing or speaking. Magnetic Resonance in Medicine, 1998, 40, 55-60.	3.0	165

#	Article	IF	Citations
55	Simultaneous gradient-echo/spin-echo EPI of graded ischemia in human skeletal muscle. Journal of Magnetic Resonance Imaging, 1998, 8, 1106-1113.	3.4	59
56	Electron paramagnetic resonance detection by time-locked subsampling. Review of Scientific Instruments, 1998, 69, 2622-2628.	1.3	39
57	Graded Effects of Spatial and Featural Attention on Human Area MT and Associated Motion Processing Areas. Journal of Neurophysiology, 1997, 78, 516-520.	1.8	238
58	The effect of magnetization transfer on functional MRI signals. Magnetic Resonance in Medicine, 1997, 38, 187-192.	3.0	14
59	Software tools for analysis and visualization of fMRI data. NMR in Biomedicine, 1997, 10, 171-178.	2.8	907
60	Functional Magnetic Resonance Imaging Mapping of the Motor Cortex in Patients with Cerebral Tumors. Neurosurgery, 1996, 39, 494-508.	1.1	113
61	AFNI: Software for Analysis and Visualization of Functional Magnetic Resonance Neuroimages. Journal of Biomedical Informatics, 1996, 29, 162-173.	0.7	9,668
62	Real-Time Functional Magnetic Resonance Imaging. Magnetic Resonance in Medicine, 1995, 33, 230-236.	3.0	276
63	Optimized isotropic diffusion weighting. Magnetic Resonance in Medicine, 1995, 34, 139-143.	3.0	155
64	Commentary: Is the Statistic Value All We Should Care about in Neuroimaging?. , 0, , .		6