

Thomas E Nichols

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4557849/thomas-e-nichols-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

289
papers

46,192
citations

76
h-index

214
g-index

330
ext. papers

56,543
ext. citations

7.5
avg, IF

7.85
L-index

#	Paper	IF	Citations
289	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
288	Nonparametric permutation tests for functional neuroimaging: a primer with examples. <i>Human Brain Mapping</i> , 2002 , 15, 1-25	5.9	4470
287	Thresholding of statistical maps in functional neuroimaging using the false discovery rate. <i>NeuroImage</i> , 2002 , 15, 870-8	7.9	3909
286	Threshold-free cluster enhancement: addressing problems of smoothing, threshold dependence and localisation in cluster inference. <i>NeuroImage</i> , 2009 , 44, 83-98	7.9	3377
285	Cluster failure: Why fMRI inferences for spatial extent have inflated false-positive rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7900-5	11.5	2098
284	Large-scale automated synthesis of human functional neuroimaging data. <i>Nature Methods</i> , 2011 , 8, 665-70.6	10.6	1984
283	Permutation inference for the general linear model. <i>NeuroImage</i> , 2014 , 92, 381-97	7.9	1884
282	Valid conjunction inference with the minimum statistic. <i>NeuroImage</i> , 2005 , 25, 653-60	7.9	1529
281	Network modelling methods for FMRI. <i>NeuroImage</i> , 2011 , 54, 875-91	7.9	1254
280	Controlling the familywise error rate in functional neuroimaging: a comparative review. <i>Statistical Methods in Medical Research</i> , 2003 , 12, 419-46	2.3	872
279	Scanning the horizon: towards transparent and reproducible neuroimaging research. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 115-126	13.5	646
278	Placebo effects mediated by endogenous opioid activity on mu-opioid receptors. <i>Journal of Neuroscience</i> , 2005 , 25, 7754-62	6.6	607
277	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601
276	Nonstationary cluster-size inference with random field and permutation methods. <i>NeuroImage</i> , 2004 , 22, 676-87	7.9	582
275	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560
274	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015 , 18, 1565-7	25.5	551
273	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014 , 8, 153-82	4.1	539

272	The brain imaging data structure, a format for organizing and describing outputs of neuroimaging experiments. <i>Scientific Data</i> , 2016 , 3, 160044	8.2	510
271	Identification of common variants associated with human hippocampal and intracranial volumes. <i>Nature Genetics</i> , 2012 , 44, 552-61	36.3	498
270	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
269	Validating cluster size inference: random field and permutation methods. <i>NeuroImage</i> , 2003 , 20, 2343-56	56.9	399
268	Guidelines for reporting an fMRI study. <i>NeuroImage</i> , 2008 , 40, 409-414	7.9	367
267	Behavior, sensitivity, and power of activation likelihood estimation characterized by massive empirical simulation. <i>NeuroImage</i> , 2016 , 137, 70-85	7.9	346
266	Optimization of experimental design in fMRI: a general framework using a genetic algorithm. <i>NeuroImage</i> , 2003 , 18, 293-309	7.9	339
265	NeuroVault.org: a web-based repository for collecting and sharing unthresholded statistical maps of the human brain. <i>Frontiers in Neuroinformatics</i> , 2015 , 9, 8	3.9	332
264	Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9523-8	11.5	329
263	Non-white noise in fMRI: does modelling have an impact?. <i>NeuroImage</i> , 2006 , 29, 54-66	7.9	318
262	Best practices in data analysis and sharing in neuroimaging using MRI. <i>Nature Neuroscience</i> , 2017 , 20, 299-303	25.5	312
261	Ten simple rules for neuroimaging meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 84, 151-61	36.1	296
260	Anterior cingulate gyrus dysfunction and selective attention deficits in schizophrenia: [15O]H ₂ O PET study during single-trial Stroop task performance. <i>American Journal of Psychiatry</i> , 1997 , 154, 1670-5	11.9	289
259	Variability in the analysis of a single neuroimaging dataset by many teams. <i>Nature</i> , 2020 , 582, 84-88	50.4	281
258	Impact of complex genetic variation in COMT on human brain function. <i>Molecular Psychiatry</i> , 2006 , 11, 867-77, 797	15.1	279
257	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: a pilot project of the ENIGMA-DTI working group. <i>NeuroImage</i> , 2013 , 81, 455-469	7.9	278
256	Switching attention and resolving interference: fMRI measures of executive functions. <i>Neuropsychologia</i> , 2003 , 41, 357-70	3.2	261
255	Meta-analysis of neuroimaging data: a comparison of image-based and coordinate-based pooling of studies. <i>NeuroImage</i> , 2009 , 45, 810-23	7.9	250

254	Pronociceptive and antinociceptive effects of estradiol through endogenous opioid neurotransmission in women. <i>Journal of Neuroscience</i> , 2006 , 26, 5777-85	6.6	234
253	Handbook of Functional MRI Data Analysis 2011 ,		227
252	Combining voxel intensity and cluster extent with permutation test framework. <i>NeuroImage</i> , 2004 , 23, 54-63	7.9	197
251	Statistical Challenges in "Big Data" Human Neuroimaging. <i>Neuron</i> , 2018 , 97, 263-268	13.9	174
250	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
249	Evaluating the consistency and specificity of neuroimaging data using meta-analysis. <i>NeuroImage</i> , 2009 , 45, S210-21	7.9	169
248	Power calculation for group fMRI studies accounting for arbitrary design and temporal autocorrelation. <i>NeuroImage</i> , 2008 , 39, 261-8	7.9	166
247	Activation of the medial prefrontal cortex and extended amygdala by individual ratings of emotional arousal: a fMRI study. <i>Biological Psychiatry</i> , 2003 , 53, 211-5	7.9	166
246	Genetic influences on schizophrenia and subcortical brain volumes: large-scale proof of concept. <i>Nature Neuroscience</i> , 2016 , 19, 420-431	25.5	163
245	Everything you never wanted to know about circular analysis, but were afraid to ask. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 1551-7	7.3	161
244	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015 , 111, 300-11	7.9	159
243	Discovering genetic associations with high-dimensional neuroimaging phenotypes: A sparse reduced-rank regression approach. <i>NeuroImage</i> , 2010 , 53, 1147-59	7.9	154
242	A comparison of random field theory and permutation methods for the statistical analysis of MEG data. <i>NeuroImage</i> , 2005 , 25, 383-94	7.9	147
241	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147
240	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017 , 145, 389-408	7.9	142
239	Multi-level block permutation. <i>NeuroImage</i> , 2015 , 123, 253-68	7.9	137
238	Statistical limitations in functional neuroimaging. II. Signal detection and statistical inference. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 1261-81	5.8	137
237	Faster permutation inference in brain imaging. <i>NeuroImage</i> , 2016 , 141, 502-516	7.9	136

236	A Bayesian model of category-specific emotional brain responses. <i>PLoS Computational Biology</i> , 2015 , 11, e1004066	5	136
235	Multiple testing corrections, nonparametric methods, and random field theory. <i>NeuroImage</i> , 2012 , 62, 811-5	7.9	136
234	Cluster-based computational methods for mass univariate analyses of event-related brain potentials/fields: A simulation study. <i>Journal of Neuroscience Methods</i> , 2015 , 250, 85-93	3	125
233	Brain network analysis: separating cost from topology using cost-integration. <i>PLoS ONE</i> , 2011 , 6, e21570	3.7	125
232	Anatomically-distinct genetic associations of APOE epsilon4 allele load with regional cortical atrophy in Alzheimer's disease. <i>NeuroImage</i> , 2009 , 44, 724-8	7.9	124
231	Genetics of the connectome. <i>NeuroImage</i> , 2013 , 80, 475-88	7.9	123
230	Spatiotemporal reconstruction of list-mode PET data. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 396-404	11.7	122
229	Non-parametric combination and related permutation tests for neuroimaging. <i>Human Brain Mapping</i> , 2016 , 37, 1486-511	5.9	122
228	Estimation of brain age delta from brain imaging. <i>NeuroImage</i> , 2019 , 200, 528-539	7.9	118
227	False positives in neuroimaging genetics using voxel-based morphometry data. <i>NeuroImage</i> , 2011 , 54, 992-1000	7.9	118
226	Measuring and comparing brain cortical surface area and other areal quantities. <i>NeuroImage</i> , 2012 , 61, 1428-43	7.9	117
225	Generalizable representations of pain, cognitive control, and negative emotion in medial frontal cortex. <i>Nature Neuroscience</i> , 2018 , 21, 283-289	25.5	114
224	Diagnosis and exploration of massively univariate neuroimaging models. <i>NeuroImage</i> , 2003 , 19, 1014-32	7.9	111
223	Adjusting the effect of nonstationarity in cluster-based and TFCE inference. <i>NeuroImage</i> , 2011 , 54, 2006-19	7.9	105
222	Association of GSK3beta polymorphisms with brain structural changes in major depressive disorder. <i>Archives of General Psychiatry</i> , 2009 , 66, 721-8		105
221	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018 , 183, 972-984	7.9	101
220	Fast and accurate modelling of longitudinal and repeated measures neuroimaging data. <i>NeuroImage</i> , 2014 , 94, 287-302	7.9	97
219	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and mega-analytical approaches for data pooling. <i>NeuroImage</i> , 2014 , 95, 136-50	7.9	95

218	Statistical limitations in functional neuroimaging. I. Non-inferential methods and statistical models. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 1239-60	5.8	93
217	Rank-order versus mean based statistics for neuroimaging. <i>NeuroImage</i> , 2007 , 35, 1531-7	7.9	81
216	Gender differences in patterns of cerebral activation during equal experience of painful laser stimulation. <i>Journal of Pain</i> , 2002 , 3, 401-11	5.2	80
215	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016 , 131, 162-70	7.9	79
214	Data Sharing in Psychology: A Survey on Barriers and Preconditions. <i>Advances in Methods and Practices in Psychological Science</i> , 2018 , 1, 70-85	13.3	78
213	Positron emission tomographic imaging of serotonin activation effects on prefrontal cortex in healthy volunteers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 418-26	7.3	76
212	Pathway-based approaches to imaging genetics association studies: Wnt signaling, GSK3beta substrates and major depression. <i>NeuroImage</i> , 2010 , 53, 908-17	7.9	75
211	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
210	Association of regional gray matter volume loss and progression of white matter lesions in multiple sclerosis - A longitudinal voxel-based morphometry study. <i>NeuroImage</i> , 2009 , 45, 60-7	7.9	72
209	Reduced gamma-aminobutyric acid(A)-benzodiazepine binding sites in insular cortex of individuals with panic disorder. <i>Archives of General Psychiatry</i> , 2007 , 64, 793-800		72
208	Changes in forebrain function from waking to REM sleep in depression: preliminary analyses of [18F]FDG PET studies. <i>Psychiatry Research - Neuroimaging</i> , 1999 , 91, 59-78	2.9	72
207	The Lifespan Human Connectome Project in Development: A large-scale study of brain connectivity development in 5-21 year olds. <i>NeuroImage</i> , 2018 , 183, 456-468	7.9	71
206	A multi-center randomized proof-of-concept clinical trial applying [18F]FDG-PET for evaluation of metabolic therapy with rosiglitazone XR in mild to moderate Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2010 , 22, 1241-56	4.3	71
205	Simple group fMRI modeling and inference. <i>NeuroImage</i> , 2009 , 47, 1469-75	7.9	71
204	Toward a taxonomy of attention shifting: individual differences in fMRI during multiple shift types. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2005 , 5, 127-43	3.5	66
203	Estimation efficiency and statistical power in arterial spin labeling fMRI. <i>NeuroImage</i> , 2006 , 33, 103-14	7.9	65
202	Increasing power for voxel-wise genome-wide association studies: the random field theory, least square kernel machines and fast permutation procedures. <i>NeuroImage</i> , 2012 , 63, 858-73	7.9	63
201	The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017 , 6,	8.9	62

200	Lesion probability maps of white matter hyperintensities in elderly individuals: results of the Austrian stroke prevention study. <i>Journal of Neurology</i> , 2006 , 253, 1064-70	5.5	60
199	Test-retest variability of serotonin 5-HT _{2A} receptor binding measured with positron emission tomography and [18F]altanserin in the human brain. <i>Synapse</i> , 1998 , 30, 380-92	2.4	58
198	Joint Analysis of Cortical Area and Thickness as a Replacement for the Analysis of the Volume of the Cerebral Cortex. <i>Cerebral Cortex</i> , 2018 , 28, 738-749	5.1	56
197	Optimizing the design and analysis of clinical functional magnetic resonance imaging research studies. <i>Biological Psychiatry</i> , 2008 , 64, 842-9	7.9	56
196	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations. <i>ELife</i> , 2020 , 9,	8.9	56
195	NeuroVault.org: A repository for sharing unthresholded statistical maps, parcellations, and atlases of the human brain. <i>NeuroImage</i> , 2016 , 124, 1242-1244	7.9	55
194	Impact of combined estradiol and norethindrone therapy on visuospatial working memory assessed by functional magnetic resonance imaging. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 4476-81	5.6	55
193	Exploring the impact of analysis software on task fMRI results. <i>Human Brain Mapping</i> , 2019 , 40, 3362-3384	5.9	54
192	Orbitofrontal connectivity with resting-state networks is associated with midbrain dopamine D3 receptor availability. <i>Cerebral Cortex</i> , 2012 , 22, 2784-93	5.1	54
191	Towards Reproducible Brain-Wide Association Studies		54
190	Massively expedited genome-wide heritability analysis (MEGHA). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2479-84	11.5	52
189	Striatal [11C]dihydrotetrabenazine and [11C]methylphenidate binding in Tourette syndrome. <i>Neurology</i> , 2009 , 72, 1390-6	6.5	52
188	Genetic analysis of cortical thickness and fractional anisotropy of water diffusion in the brain. <i>Frontiers in Neuroscience</i> , 2011 , 5, 120	5.1	51
187	Modeling and inference of multisubject fMRI data. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2006 , 25, 42-51		50
186	Effective degrees of freedom of the Pearson's correlation coefficient under autocorrelation. <i>NeuroImage</i> , 2019 , 199, 609-625	7.9	49
185	Stochastic blockmodeling of the modules and core of the <i>Caenorhabditis elegans</i> connectome. <i>PLoS ONE</i> , 2014 , 9, e97584	3.7	45
184	Fixing the stimulus-as-fixed-effect fallacy in task fMRI. <i>Wellcome Open Research</i> , 2016 , 1, 23	4.8	45
183	Development of impulse control circuitry in children of alcoholics. <i>Biological Psychiatry</i> , 2014 , 76, 708-167.9		44

182	The danger of systematic bias in group-level FMRI-lag-based causality estimation. <i>NeuroImage</i> , 2012 , 59, 1228-9	7.9	44
181	PET brain mapping study of auditory verbal supraspan memory versus visual fixation in schizophrenia. <i>Biological Psychiatry</i> , 1997 , 41, 33-42	7.9	43
180	Heterochronicity of white matter development and aging explains regional patient control differences in schizophrenia. <i>Human Brain Mapping</i> , 2016 , 37, 4673-4688	5.9	43
179	Meta Analysis of Functional Neuroimaging Data via Bayesian Spatial Point Processes. <i>Journal of the American Statistical Association</i> , 2011 , 106, 124-134	2.8	42
178	Insight and inference for DVARS. <i>NeuroImage</i> , 2018 , 172, 291-312	7.9	41
177	Linkage disequilibrium: ancient history drives the new genetics. <i>Human Heredity</i> , 2005 , 59, 118-24	1.1	41
176	Confound modelling in UK Biobank brain imaging. <i>NeuroImage</i> , 2021 , 224, 117002	7.9	40
175	Multivariate pattern classification of gray matter pathology in multiple sclerosis. <i>NeuroImage</i> , 2012 , 60, 400-8	7.9	37
174	Best Practices in Data Analysis and Sharing in Neuroimaging using MRI		37
173	Structural brain changes in patients with recurrent major depressive disorder presenting with anxiety symptoms. <i>Journal of Neuroimaging</i> , 2011 , 21, 375-82	2.8	36
172	Cluster failure revisited: Impact of first level design and physiological noise on cluster false positive rates. <i>Human Brain Mapping</i> , 2019 , 40, 2017-2032	5.9	36
171	Large-scale GWAS reveals genetic architecture of brain white matter microstructure and genetic overlap with cognitive and mental health traits (n = 17,706). <i>Molecular Psychiatry</i> , 2021 , 26, 3943-3955	15.1	35
170	Cluster mass inference via random field theory. <i>NeuroImage</i> , 2009 , 44, 51-61	7.9	35
169	Spatiotemporal distribution pattern of white matter lesion volumes and their association with regional grey matter volume reductions in relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , 2010 , 31, 1542-55	5.9	35
168	Functional connectivity in auditory-verbal short-term memory in Alzheimer's disease. <i>NeuroImage</i> , 1996 , 4, 67-77	7.9	35
167	Towards Algorithmic Analytics for Large-scale Datasets. <i>Nature Machine Intelligence</i> , 2019 , 1, 296-306	22.5	34
166	Reproducible brain-wide association studies require thousands of individuals.. <i>Nature</i> , 2022 , 603, 654-666	9.4	34
165	Genes regulated by learning in the hippocampus. <i>Journal of Neuroscience Research</i> , 2003 , 71, 763-8	4.4	33

164	Probabilistic TFCE: A generalized combination of cluster size and voxel intensity to increase statistical power. <i>NeuroImage</i> , 2019 , 185, 12-26	7.9	33
163	Age differences in the brain mechanisms of good taste. <i>NeuroImage</i> , 2015 , 113, 298-309	7.9	31
162	FVGWAS: Fast voxelwise genome wide association analysis of large-scale imaging genetic data. <i>NeuroImage</i> , 2015 , 118, 613-27	7.9	31
161	A comparison of gray matter density in restless legs syndrome patients and matched controls using voxel-based morphometry. <i>Journal of Neuroimaging</i> , 2012 , 22, 28-32	2.8	31
160	Longitudinal gray matter changes in multiple sclerosis--differential scanner and overall disease-related effects. <i>Human Brain Mapping</i> , 2012 , 33, 1225-45	5.9	31
159	Modeling inter-subject variability in fMRI activation location: a Bayesian hierarchical spatial model. <i>Biometrics</i> , 2009 , 65, 1041-51	1.8	31
158	Brain imaging before and after COVID-19 in UK Biobank 2021 ,		31
157	Effect of immunomodulatory medication on regional gray matter loss in relapsing-remitting multiple sclerosis--a longitudinal MRI study. <i>Brain Research</i> , 2010 , 1325, 174-82	3.7	30
156	Joint genetic analysis of hippocampal size in mouse and human identifies a novel gene linked to neurodegenerative disease. <i>BMC Genomics</i> , 2014 , 15, 850	4.5	29
155	Seeking Optimal Region-Of-Interest (ROI) Single-Value Summary Measures for fMRI Studies in Imaging Genetics. <i>PLoS ONE</i> , 2016 , 11, e0151391	3.7	28
154	Comparison of heritability estimates on resting state fMRI connectivity phenotypes using the ENIGMA analysis pipeline. <i>Human Brain Mapping</i> , 2018 , 39, 4893-4902	5.9	27
153	Post-ECT increases in MRI regional T2 relaxation times and their relationship to cognitive side effects: a pilot study. <i>Psychiatry Research</i> , 1994 , 54, 177-84	9.9	27
152	Beyond Bonferroni revisited: concerns over inflated false positive research findings in the fields of conservation genetics, biology, and medicine. <i>Conservation Genetics</i> , 2019 , 20, 927-937	2.6	26
151	Guidelines for the content and format of PET brain data in publications and archives: A consensus paper. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 1576-1585	7.3	26
150	Sharing brain mapping statistical results with the neuroimaging data model. <i>Scientific Data</i> , 2016 , 3, 1601802	8.0	26
149	The common genetic influence over processing speed and white matter microstructure: Evidence from the Old Order Amish and Human Connectome Projects. <i>NeuroImage</i> , 2016 , 125, 189-197	7.9	24
148	Fast and powerful heritability inference for family-based neuroimaging studies. <i>NeuroImage</i> , 2015 , 115, 256-68	7.9	24
147	The coordinate-based meta-analysis of neuroimaging data. <i>Statistical Science</i> , 2017 , 32, 580-599	2.4	24

146	Progression in disability and regional grey matter atrophy in relapsing-remitting multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2014 , 20, 202-13	5	24
145	Commentary on Vul et al.'s (2009) "Puzzlingly High Correlations in fMRI Studies of Emotion, Personality, and Social Cognition". <i>Perspectives on Psychological Science</i> , 2009 , 4, 291-3	9.8	24
144	An interactive meta-analysis of MRI biomarkers of myelin. <i>ELife</i> , 2020 , 9,	8.9	24
143	Power and sample size calculations for fMRI studies based on the prevalence of active peaks		24
142	Multiple testing correction over contrasts for brain imaging. <i>NeuroImage</i> , 2020 , 216, 116760	7.9	23
141	An Ultra-High Field Magnetic Resonance Spectroscopy Study of Post Exercise Lactate, Glutamate and Glutamine Change in the Human Brain. <i>Frontiers in Physiology</i> , 2015 , 6, 351	4.6	23
140	Medial Demons Registration Localizes The Degree of Genetic Influence Over Subcortical Shape Variability: An N= 1480 Meta-Analysis 2015 , 2015, 1402-1406	1.5	23
139	Fixing the stimulus-as-fixed-effect fallacy in task fMRI. <i>Wellcome Open Research</i> , 1, 23	4.8	23
138	Unravelling the GSK3 β -related genotypic interaction network influencing hippocampal volume in recurrent major depressive disorder. <i>Psychiatric Genetics</i> , 2018 , 28, 77-84	2.9	23
137	Spatiotemporal localization of significant activation in MEG using permutation tests. <i>Lecture Notes in Computer Science</i> , 2003 , 18, 512-23	0.9	22
136	Cerebrovascular risk factors impact frontoparietal network integrity and executive function in healthy ageing. <i>Nature Communications</i> , 2020 , 11, 4340	17.4	22
135	Exploring fMRI Results Space: 31 Variants of an fMRI Analysis in AFNI, FSL, and SPM. <i>Frontiers in Neuroinformatics</i> , 2016 , 10, 24	3.9	22
134	Post-hoc power estimation for topological inference in fMRI. <i>NeuroImage</i> , 2014 , 84, 45-64	7.9	21
133	A BAYESIAN HIERARCHICAL SPATIAL POINT PROCESS MODEL FOR MULTI-TYPE NEUROIMAGING META-ANALYSIS. <i>Annals of Applied Statistics</i> , 2014 , 8, 1800-1824	2.1	20
132	Spatiotemporal distribution of white matter lesions in relapsing-remitting and secondary progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2012 , 18, 1577-84	5	20
131	Diagnosis of single-subject and group fMRI data with SPMd. <i>Human Brain Mapping</i> , 2006 , 27, 442-51	5.9	20
130	Searching Multiregression Dynamic Models of Resting-State fMRI Networks Using Integer Programming. <i>Bayesian Analysis</i> , 2015 , 10,	2.3	19
129	Structural Variability in the Human Brain Reflects Fine-Grained Functional Architecture at the Population Level. <i>Journal of Neuroscience</i> , 2019 , 39, 6136-6149	6.6	18

128	ANALYSIS OF MULTIPLE SCLEROSIS LESIONS VIA SPATIALLY VARYING COEFFICIENTS. <i>Annals of Applied Statistics</i> , 2014 , 8, 1095-1118	2.1	18
127	A kernel machine method for detecting effects of interaction between multidimensional variable sets: an imaging genetics application. <i>NeuroImage</i> , 2015 , 109, 505-514	7.9	18
126	Using Gaussian-process regression for meta-analytic neuroimaging inference based on sparse observations. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1401-16	11.7	18
125	Directed functional connectivity using dynamic graphical models. <i>NeuroImage</i> , 2018 , 175, 340-353	7.9	17
124	Classifying individuals at high-risk for psychosis based on functional brain activity during working memory processing. <i>NeuroImage: Clinical</i> , 2015 , 9, 555-63	5.3	17
123	The psychological correlates of distinct neural states occurring during wakeful rest. <i>Scientific Reports</i> , 2020 , 10, 21121	4.9	17
122	Permutation inference for canonical correlation analysis. <i>NeuroImage</i> , 2020 , 220, 117065	7.9	16
121	Imaging proteomics for diagnosis, monitoring and prediction of Alzheimer's disease. <i>NeuroImage</i> , 2014 , 102 Pt 2, 657-65	7.9	16
120	Transcriptomics of cortical gray matter thickness decline during normal aging. <i>NeuroImage</i> , 2013 , 82, 273-83	7.9	16
119	A Bayesian non-parametric Potts model with application to pre-surgical fMRI data. <i>Statistical Methods in Medical Research</i> , 2013 , 22, 364-81	2.3	16
118	When the Single Matters more than the Group (II): Addressing the Problem of High False Positive Rates in Single Case Voxel Based Morphometry Using Non-parametric Statistics. <i>Frontiers in Neuroscience</i> , 2016 , 10, 6	5.1	16
117	Homogenizing Estimates of Heritability Among SOLAR-Eclipse, OpenMx, APACE, and FPHI Software Packages in Neuroimaging Data. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 16	3.9	15
116	Global genetic variations predict brain response to faces. <i>PLoS Genetics</i> , 2014 , 10, e1004523	6	15
115	Spatial Bayesian latent factor regression modeling of coordinate-based meta-analysis data. <i>Biometrics</i> , 2018 , 74, 342-353	1.8	14
114	Dynamic filtering of static dipoles in magnetoencephalography. <i>Annals of Applied Statistics</i> , 2013 , 7,	2.1	14
113	A novel ANCOVA design for analysis of MEG data with application to a visual attention study. <i>NeuroImage</i> , 2009 , 44, 164-74	7.9	14
112	MRI-based prediction of conversion from clinically isolated syndrome to clinically definite multiple sclerosis using SVM and lesion geometry. <i>Brain Imaging and Behavior</i> , 2019 , 13, 1361-1374	4.1	14
111	Reply to Brown and Behrmann, Cox, et al., and Kessler et al.: Data and code sharing is the way forward for fMRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3374-E3375	11.5	13

110	Variability in the analysis of a single neuroimaging dataset by many teams		13
109	A defense of using resting-state fMRI as null data for estimating false positive rates. <i>Cognitive Neuroscience</i> , 2017 , 8, 144-149	1.7	12
108	Improving data availability for brain image biobanking in healthy subjects: Practice-based suggestions from an international multidisciplinary working group. <i>NeuroImage</i> , 2017 , 153, 399-409	7.9	12
107	Comparison of a non-stationary voxelation-corrected cluster-size test with TFCE for group-Level MRI inference. <i>Human Brain Mapping</i> , 2017 , 38, 1269-1280	5.9	12
106	Impact of family structure and common environment on heritability estimation for neuroimaging genetics studies using Sequential Oligogenic Linkage Analysis Routines. <i>Journal of Medical Imaging</i> , 2014 , 1, 014005	2.6	12
105	Genetic variation in GOLM1 and prefrontal cortical volume in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2012 , 33, 457-65	5.6	12
104	Variance decomposition for single-subject task-based fMRI activity estimates across many sessions. <i>NeuroImage</i> , 2017 , 154, 206-218	7.9	11
103	COMT haplotype variation affects human prefrontal function. <i>Molecular Psychiatry</i> , 2006 , 11, 797-797	15.1	11
102	Combining multi-modality data for searching biomarkers in schizophrenia. <i>PLoS ONE</i> , 2018 , 13, e0191203	3.7	11
101	Pitfalls in brain age analyses. <i>Human Brain Mapping</i> , 2021 , 42, 4092-4101	5.9	11
100	Modelling the penumbra in Computed Tomography1. <i>Journal of X-Ray Science and Technology</i> , 2016 , 24, 583-97	2.1	11
99	Genomic kinship construction to enhance genetic analyses in the human connectome project data. <i>Human Brain Mapping</i> , 2019 , 40, 1677-1688	5.9	11
98	Empirically investigating the statistical validity of SPM, FSL and AFNI for single subject fMRI analysis 2015 ,		10
97	How patients with multiple sclerosis acquire disability.. <i>Brain</i> , 2022 ,	11.2	10
96	Associations between fitness, physical activity and mental health in a community sample of young British adolescents: baseline data from the Fit to Study trial. <i>BMJ Open Sport and Exercise Medicine</i> , 2020 , 6, e000819	3.4	10
95	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021 , 109, 1769-1775	13.9	10
94	Characterisation of MS phenotypes across the age span using a novel data set integrating 34 clinical trials (NO.MS cohort): Age is a key contributor to presentation. <i>Multiple Sclerosis Journal</i> , 2021 , 27, 2062-2076	5	10
93	Alternative-based thresholding with application to presurgical fMRI. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2013 , 13, 703-13	3.5	9

92	Multiple comparison procedures for neuroimaging genomewide association studies. <i>Biostatistics</i> , 2015 , 16, 17-30	3.7	9
91	Voxelwise distribution of acute ischemic stroke lesions in patients with newly diagnosed atrial fibrillation: Trigger of arrhythmia or only target of embolism?. <i>PLoS ONE</i> , 2017 , 12, e0177474	3.7	9
90	Quantifying uncertainty in brain-predicted age using scalar-on-image quantile regression. <i>NeuroImage</i> , 2020 , 219, 116938	7.9	8
89	Spatial confidence sets for raw effect size images. <i>NeuroImage</i> , 2019 , 203, 116187	7.9	8
88	Personalized Medication Response Prediction for Attention-Deficit Hyperactivity Disorder: Learning in the Model Space vs. Learning in the Data Space. <i>Frontiers in Physiology</i> , 2017 , 8, 199	4.6	8
87	Statistical Analysis of fMRI Data. <i>Neuroinformatics</i> , 2009 , 179-236	0.4	8
86	Modules of Working Memory 2003 , 113-134		8
85	Estimating the prevalence of missing experiments in a neuroimaging meta-analysis. <i>Research Synthesis Methods</i> , 2020 , 11, 866-883	7.2	8
84	No safe level of alcohol consumption for brain health: observational cohort study of 25,378 UK Biobank participants		8
83	Confidence Sets for Cohen's d effect size images. <i>NeuroImage</i> , 2021 , 226, 117477	7.9	8
82	Bayesian log-Gaussian Cox process regression: with applications to meta-analysis of neuroimaging working memory studies. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2019 , 68, 217-234	15.5	7
81	Do Candidate Genes Affect the Brain's White Matter Microstructure? Large-Scale Evaluation of 6,165 Diffusion MRI Scans		7
80	Stable between-subject statistical inference from unstable within-subject functional connectivity estimates. <i>Human Brain Mapping</i> , 2019 , 40, 1234-1243	5.9	7
79	Generalized reduced rank latent factor regression for high dimensional tensor fields, and neuroimaging-genetic applications. <i>NeuroImage</i> , 2017 , 144, 35-57	7.9	6
78	Holmes and Watson on 'Sherlock'. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 697-8	7.3	6
77	Accelerated estimation and permutation inference for ACE modeling. <i>Human Brain Mapping</i> , 2019 , 40, 3488-3507	5.9	5
76	Developmental maturation of inhibitory control circuitry in a high-risk sample: A longitudinal fMRI study. <i>Developmental Cognitive Neuroscience</i> , 2020 , 43, 100781	5.5	5
75	Heritability estimates on resting state fMRI data using ENIGMA analysis pipeline 2018 ,		5

74	Discovering markers of healthy aging: a prospective study in a Danish male birth cohort. <i>Aging</i> , 2019 , 11, 5943-5974	5.6	5
73	Scanning the Horizon: Towards transparent and reproducible neuroimaging research		5
72	Exploring the Impact of Analysis Software on Task fMRI Results		5
71	Multiple testing correction over contrasts for brain imaging		5
70	The genetics-BIDS extension: Easing the search for genetic data associated with human brain imaging. <i>GigaScience</i> , 2020 , 9,	7.6	5
69	The effect of a one-year vigorous physical activity intervention on fitness, cognitive performance and mental health in young adolescents: the Fit to Study cluster randomised controlled trial. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021 , 18, 47	8.4	5
68	Adolescent Brain Cognitive Development (ABCD) Community MRI Collection and Utilities		5
67	A voxelation-corrected non-stationary 3D cluster-size test based on random field theory. <i>NeuroImage</i> , 2015 , 118, 676-82	7.9	4
66	Multi-subject Stochastic Blockmodels for adaptive analysis of individual differences in human brain network cluster structure. <i>NeuroImage</i> , 2020 , 220, 116611	7.9	4
65	Fast and powerful genome wide association of dense genetic data with high dimensional imaging phenotypes. <i>Nature Communications</i> , 2018 , 9, 3254	17.4	4
64	The harmonic mean χ^2 -value: Strong versus weak control, and the assumption of independence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23382-23383 ^{11.5}		4
63	Studying the effective brain connectivity using multiregression dynamic models. <i>Brazilian Journal of Probability and Statistics</i> , 2017 , 31,	0.9	4
62	A hybrid procedure for detecting global treatment effects in multivariate clinical trials: theory and applications to fMRI studies. <i>Statistics in Medicine</i> , 2012 , 31, 253-68	2.3	4
61	Thyroid hormone transporter genes and grey matter changes in patients with major depressive disorder and healthy controls. <i>Psychoneuroendocrinology</i> , 2011 , 36, 929-34	5	4
60	Non-parametric procedures 2007 , 253-272		4
59	Statistical analysis of multiplex brain gene expression images. <i>Neurochemical Research</i> , 2002 , 27, 1113-21.6		4
58	Imaging of oscillatory behavior in event-related MEG studies 2005 ,		4
57	Making replication prestigious. <i>Behavioral and Brain Sciences</i> , 2018 , 41, e131	0.9	4

56	NeuroVault.org: A web-based repository for collecting and sharing unthresholded statistical maps of the human brain		4
55	Minimal Data Needed for Valid & Accurate Image-Based fMRI Meta-Analysis		4
54	The psychological correlates of distinct neural states occurring during wakeful rest		4
53	Confound modelling in UK Biobank brain imaging		4
52	Estimating the prevalence of missing experiments in a neuroimaging meta-analysis		4
51	Adjusting the neuroimaging statistical inferences for nonstationarity. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 992-9	0.9	4
50	Selective peak inference: Unbiased estimation of raw and standardized effect size at local maxima. <i>NeuroImage</i> , 2020 , 209, 116375	7.9	4
49	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference. <i>NeuroImage</i> , 2019 , 185, 434-445	7.9	4
48	A group analysis using the Multiregression Dynamic Models for fMRI networked time series. <i>Journal of Statistical Planning and Inference</i> , 2019 , 198, 43-61	0.8	4
47	Reply to Chen et al.: Parametric methods for cluster inference perform worse for two-sided t-tests. <i>Human Brain Mapping</i> , 2019 , 40, 1689-1691	5.9	3
46	Accelerating permutation testing in voxel-wise analysis through subspace tracking: A new plugin for SnPM. <i>NeuroImage</i> , 2017 , 159, 79-98	7.9	3
45	Toward a multisubject analysis of neural connectivity. <i>Neural Computation</i> , 2015 , 27, 151-70	2.9	3
44	The additive impact of cardio-metabolic disorders and psychiatric illnesses on accelerated brain aging.. <i>Human Brain Mapping</i> , 2022 ,	5.9	3
43	Boosting BOLD fMRI by K-space density weighted echo planar imaging. <i>PLoS ONE</i> , 2013 , 8, e74501	3.7	3
42	Spatial distribution and cognitive impact of cerebrovascular risk-related white matter hyperintensities. <i>NeuroImage: Clinical</i> , 2020 , 28, 102405	5.3	3
41	Statistical Pitfalls in Brain Age Analyses		3
40	Meaningful Associations in the Adolescent Brain Cognitive Development Study		3
39	Effective Degrees of Freedom of the Pearson's Correlation Coefficient under Autocorrelation		3

38	Multi-Subject Stochastic Blockmodels for Adaptive Analysis of Individual Differences in Human Brain Network Cluster Structure		3
37	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations		3
36	Author response: The heritability of multi-modal connectivity in human brain activity 2017 ,		3
35	Data exploration through model diagnosis. <i>NeuroImage</i> , 2001 , 13, 208	7.9	2
34	Isolating the sources of pipeline-variability in group-level task-fMRI results. <i>Human Brain Mapping</i> , 2021 ,	5.9	2
33	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. <i>Cortex</i> , 2021 , 145, 187-200	3.8	2
32	Large-scale neuroimaging and genetic study reveals genetic architecture of brain white matter microstructure		2
31	Beyond Bonferroni Revisited: Concerns over inflated false positives in conservation genetics, genetics, and neuroscience		2
30	Power Estimates for Voxel-Based Genetic Association Studies Using Diffusion Imaging. <i>Mathematics and Visualization</i> , 2014 , 229-238	0.6	2
29	Spatial modeling of multiple sclerosis for disease subtype prediction. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 797-804	0.9	2
28	Sharing brain mapping statistical results with the neuroimaging data model		2
27	Fixing the stimulus-as-fixed-effect fallacy in task fMRI		2
26	An interactive meta-analysis of MRI biomarkers of myelin		2
25	Comparison of regional brain deficit patterns in common psychiatric and neurological disorders as revealed by big data. <i>NeuroImage: Clinical</i> , 2021 , 29, 102574	5.3	2
24	Comparing empirical kinship derived heritability for imaging genetics traits in the UK biobank and human connectome project. <i>NeuroImage</i> , 2021 , 245, 118700	7.9	1
23	Advancing data science in drug development through an innovative computational framework for data sharing and statistical analysis. <i>BMC Medical Research Methodology</i> , 2021 , 21, 250	4.7	1
22	Generating and reporting peak and cluster tables for voxel-wise inference in FSL. <i>Research Ideas and Outcomes</i> , 3 ,	2.5	1
21	Stable between-subject statistical inference from unstable within-subject functional connectivity estimates		1

20	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference		1
19	Reassessing associations between white matter and behaviour with multimodal microstructural imaging		1
18	How does group differences in motion scrubbing affect false positives in functional connectivity studies?		1
17	Spatial distribution and cognitive impact of cerebrovascular risk-related white matter hyperintensities		1
16	Cluster Failure Revisited: Impact of First Level Design and Data Quality on Cluster False Positive Rates		1
15	Neural dynamics at rest associated with patterns of ongoing thought		1
14	Standardized Effect Sizes and Image-Based Meta-Analytical Approaches for fMRI Data		1
13	Insight and Inference for DVARS		1
12	Statistical Analysis of fMRI Data. <i>Neuromethods</i> , 2016 , 183-239	0.4	1
11	Shared and Anxiety-Specific Pediatric Psychopathology Dimensions Manifest Distributed Neural Correlates. <i>Biological Psychiatry</i> , 2021 , 89, 579-587	7.9	1
10	Multimodal Imaging Brain Markers in Early Adolescence Are Linked with a Physically Active Lifestyle. <i>Journal of Neuroscience</i> , 2021 , 41, 1092-1104	6.6	1
9	Test-retest variability of serotonin 5-HT _{2A} receptor binding measured with positron emission tomography and [18F]altanserin in the human brain 1998 , 30, 380		1
8	Discovering correlates of age-related decline in a healthy late-midlife male birth cohort. <i>Aging</i> , 2020 , 12, 16709-16743	5.6	0
7	White Matter Integrity and Nicotine Dependence: Evaluating Vertical and Horizontal Pleiotropy. <i>Frontiers in Neuroscience</i> , 2021 , 15, 738037	5.1	0
6	Fisher Scoring for crossed factor linear mixed models. <i>Statistics and Computing</i> , 2021 , 31, 53	1.8	0
5	Voxel-wise and spatial modelling of binary lesion masks: Comparison of methods with a realistic simulation framework. <i>NeuroImage</i> , 2021 , 236, 118090	7.9	0
4	Alcohol consumption and MRI markers of brain structure and function: Cohort study of 25,378 UK Biobank participants. <i>NeuroImage: Clinical</i> , 2022 , 35, 103066	5.3	0
3	Multi-subject stochastic blockmodels with mixed effects for adaptive analysis of individual differences in human brain network cluster structure. <i>Statistica Neerlandica</i> , 2020 , 74, 363-396	0.9	

- 2 The expected behaviour of random fields in high dimensions: contradictions in the results of Bansal and Peterson []. *Magnetic Resonance Imaging*, **2022**, 3-3
- 1 An interactive meta-analysis of MRI biomarkers of myelin **2022**, 1, 4