Bruce Fischl Or B Fischl

List of Publications by Year
in descending order

269 papers	104,569 citations	2565 99 h-index	726 258 g-index
295 all docs	295 docs citations	295 times ranked	57597 citing authors

#	Article	IF	Citations
1	SynthMorph: Learning Contrast-Invariant Registration Without Acquired Images. IEEE Transactions on Medical Imaging, 2022, 41, 543-558.	5.4	42
2	Robust joint registration of multiple stains and MRI for multimodal 3D histology reconstruction: Application to the Allen human brain atlas. Medical Image Analysis, 2022, 75, 102265.	7.0	5
3	Scalable mapping of myelin and neuron density in the human brain with micrometer resolution. Scientific Reports, 2022, 12, 363.	1.6	5
4	Entorhinal Subfield Vulnerability to Neurofibrillary Tangles in Aging and the Preclinical Stage of Alzheimer's Disease. Journal of Alzheimer's Disease, 2022, 87, 1379-1399.	1.2	9
5	A novel algorithm for multiplicative speckle noise reduction in ex vivo human brain OCT images. NeuroImage, 2022, 257, 119304.	2.1	4
6	Long-Term Effects of Repeated Blast Exposure in United States Special Operations Forces Personnel: A Pilot Study Protocol. Journal of Neurotrauma, 2022, 39, 1391-1407.	1.7	4
7	SynthStrip: skull-stripping for any brain image. NeuroImage, 2022, 260, 119474.	2.1	56
8	CoVA: An Acuity Score for Outpatient Screening that Predicts Coronavirus Disease 2019 Prognosis. Journal of Infectious Diseases, 2021, 223, 38-46.	1.9	31
9	Learning Mri Contrast-Agnostic Registration. , 2021, , .		4
10	Multi-Atlas Image Soft Segmentation via Computation of the Expected Label Value. IEEE Transactions on Medical Imaging, 2021, 40, 1702-1710.	5.4	8
11	Joint super-resolution and synthesis of 1Âmm isotropic MP-RAGE volumes from clinical MRI exams with scans of different orientation, resolution and contrast. NeuroImage, 2021, 237, 118206.	2.1	52
12	Reliability and sensitivity of two whole-brain segmentation approaches included in FreeSurfer â€" ASEG and SAMSEG. NeuroImage, 2021, 237, 118113.	2.1	10
13	Conductance-Based Structural Brain Connectivity in Aging and Dementia. Brain Connectivity, 2021, 11, 566-583.	0.8	7
14	A deep learning toolbox for automatic segmentation of subcortical limbic structures from MRI images. NeuroImage, 2021, 244, 118610.	2.1	26
15	High-fidelity approximation of grid- and shell-based sampling schemes from undersampled DSI using compressed sensing: Post mortem validation. NeuroImage, 2021, 244, 118621.	2.1	11
16	MarkVCID cerebral small vessel consortium: II. Neuroimaging protocols. Alzheimer's and Dementia, 2021, 17, 716-725.	0.4	45
17	HyperMorph: Amortized Hyperparameter Learning for Image Registration. Lecture Notes in Computer Science, 2021, , 3-17.	1.0	45
18	Quantification of volumetric morphometry and optical property in the cortex of human cerebellum at micrometer resolution. NeuroImage, 2021, 244, 118627.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Mapping the subcortical connectivity of the human default mode network. NeuroImage, 2021, 245, 118758.	2.1	34
20	The Ansa Subthalamica: A Neglected Fiber Tract. Movement Disorders, 2020, 35, 75-80.	2.2	20
21	Cortical surface registration using unsupervised learning. NeuroImage, 2020, 221, 117161.	2.1	26
22	Optimizing the accuracy of cortical volumetric analysis in traumatic brain injury. MethodsX, 2020, 7, 100994.	0.7	18
23	FastSurfer - A fast and accurate deep learning based neuroimaging pipeline. NeuroImage, 2020, 219, 117012.	2.1	229
24	Compensatory Brain Connection Discovery in Alzheimer's Disease. , 2020, 2020, 283-287.		7
25	Insight into the fundamental trade-offs of diffusion MRI from polarization-sensitive optical coherence tomography in ex vivo human brain. NeuroImage, 2020, 214, 116704.	2.1	42
26	3D Reconstruction and Segmentation of Dissection Photographs for MRI-Free Neuropathology. Lecture Notes in Computer Science, 2020, , 204-214.	1.0	3
27	Infant FreeSurfer: An automated segmentation and surface extraction pipeline for T1-weighted neuroimaging data of infants 0â€"2 years. NeuroImage, 2020, 218, 116946.	2.1	96
28	Improving the characterization of ex vivo human brain optical properties using high numerical aperture optical coherence tomography by spatially constraining the confocal parameters. Neurophotonics, 2020, 7, 045005.	1.7	14
29	Expected Label Value Computation for Atlas-Based Image Segmentation. , 2019, 2019, 334-338.		4
30	7 Tesla MRI of the ex vivo human brain at 100 micron resolution. Scientific Data, 2019, 6, 244.	2.4	179
31	Quantification of structural brain connectivity via a conductance model. NeuroImage, 2019, 189, 485-496.	2.1	15
32	Intracortical smoothing of small-voxel fMRI data can provide increased detection power without spatial resolution losses compared to conventional large-voxel fMRI data. NeuroImage, 2019, 189, 601-614.	2.1	41
33	PSACNN: Pulse sequence adaptive fast whole brain segmentation. NeuroImage, 2019, 199, 553-569.	2.1	29
34	Representational similarity precedes category selectivity in the developing ventral visual pathway. NeuroImage, 2019, 197, 565-574.	2.1	29
35	Markerless highâ€frequency prospective motion correction for neuroanatomical MRI. Magnetic Resonance in Medicine, 2019, 82, 126-144.	1.9	47
36	Maturational Changes in Human Dorsal and Ventral Visual Networks. Cerebral Cortex, 2019, 29, 5131-5149.	1.6	12

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37	Detecting Structural Brain Connectivity Differences in Dementia Through a Conductance Model. , 2019, , .		5
38	Intrinsic Functional Connectivity of the Brain in Adults with a Single Cerebral Hemisphere. Cell Reports, 2019, 29, 2398-2407.e4.	2.9	44
39	Colocalization of neurons in optical coherence microscopy and Nissl-stained histology in Brodmannâ€™s area 32 and area 21. Brain Structure and Function, 2019, 224, 351-362.	1.2	13
40	The Lifespan Human Connectome Project in Aging: An overview. NeuroImage, 2019, 185, 335-348.	2.1	186
41	Unsupervised Deep Learning for Bayesian Brain MRI Segmentation. Lecture Notes in Computer Science, 2019, 11766, 356-365.	1.0	38
42	Microstructural parcellation of the human brain. NeuroImage, 2018, 182, 219-231.	2.1	24
43	Multimodal Characterization of the Late Effects of Traumatic Brain Injury: A Methodological Overview of the Late Effects of Traumatic Brain Injury Project. Journal of Neurotrauma, 2018, 35, 1604-1619.	1.7	32
44	Factors influencing accuracy of cortical thickness in the diagnosis of Alzheimer's disease. Human Brain Mapping, 2018, 39, 1500-1515.	1.9	21
45	False positive rates in surface-based anatomical analysis. NeuroImage, 2018, 171, 6-14.	2.1	177
46	Dementia After Moderate-Severe Traumatic Brain Injury: Coexistence of Multiple Proteinopathies. Journal of Neuropathology and Experimental Neurology, 2018, 77, 50-63.	0.9	68
47	White matter abnormalities and cognition in patients with conflicting diagnoses and CSF profiles. Neurology, 2018, 90, e1461-e1469.	1.5	11
48	A probabilistic template of human mesopontine tegmental nuclei from in vivo 7 T MRI. NeuroImage, 2018, 170, 222-230.	2.1	45
49	Analysis strategies for high-resolution UHF-fMRI data. NeuroImage, 2018, 168, 296-320.	2.1	95
50	AnatomiCuts: Hierarchical clustering of tractography streamlines based on anatomical similarity. NeuroImage, 2018, 166, 32-45.	2.1	55
51	Advantages of cortical surface reconstruction using submillimeter 7ÂT MEMPRAGE. NeuroImage, 2018, 165, 11-26.	2.1	76
52	as-PSOCT: Volumetric microscopic imaging of human brain architecture and connectivity. NeuroImage, 2018, 165, 56-68.	2.1	50
53	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. NeuroImage, 2018, 183, 972-984.	2.1	290
54	Joint registration and synthesis using a probabilistic model for alignment of MRI and histological sections. Medical Image Analysis, 2018, 50, 127-144.	7.0	25

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55	Regionally specific TSC1 and TSC2 gene expression in tuberous sclerosis complex. Scientific Reports, 2018, 8, 13373.	1.6	13
56	Unsupervised Medical Image Segmentation Based on the Local Center of Mass. Scientific Reports, 2018, 8, 13012.	1.6	59
57	Accurate nonlinear mapping between MNI volumetric and FreeSurfer surface coordinate systems. Human Brain Mapping, 2018, 39, 3793-3808.	1.9	75
58	A probabilistic atlas of the human thalamic nuclei combining ex vivo MRI and histology. NeuroImage, 2018, 183, 314-326.	2.1	334
59	Pulse Sequence Resilient Fast Brain Segmentation. Lecture Notes in Computer Science, 2018, , 654-662.	1.0	9
60	Studying neuroanatomy using MRI. Nature Neuroscience, 2017, 20, 314-326.	7.1	220
61	Mid-space-independent deformable image registration. NeuroImage, 2017, 152, 158-170.	2.1	18
62	Shared genetic risk between corticobasal degeneration, progressive supranuclear palsy, and frontotemporal dementia. Acta Neuropathologica, 2017, 133, 825-837.	3.9	90
63	Differential Regional Distribution of Juxtacortical White Matter Signal Abnormalities in Aging and Alzheimer's Disease. Journal of Alzheimer's Disease, 2017, 57, 293-303.	1.2	23
64	Entorhinal Cortex: Antemortem Cortical Thickness and Postmortem Neurofibrillary Tangles and Amyloid Pathology. American Journal of Neuroradiology, 2017, 38, 961-965.	1.2	30
65	The Cytoarchitecture of Domain-specific Regions in Human High-level Visual Cortex. Cerebral Cortex, 2017, 27, 146-161.	1.6	94
66	Multimodal Image Registration Through Simultaneous Segmentation. IEEE Signal Processing Letters, 2017, 24, 1661-1665.	2.1	12
67	Functional density and edge maps: Characterizing functional architecture in individuals and improving cross-subject registration. NeuroImage, 2017, 158, 346-355.	2.1	28
68	Characterizing the optical properties of human brain tissue with high numerical aperture optical coherence tomography. Biomedical Optics Express, 2017, 8, 5617.	1.5	41
69	Multivariate statistical analysis of diffusion imaging parameters using partial least squares: Application to white matter variations in Alzheimer's disease. NeuroImage, 2016, 134, 573-586.	2.1	19
70	En face speckle reduction in optical coherence microscopy by frequency compounding. Optics Letters, 2016, 41, 1925.	1.7	15
71	Morphometricity as a measure of the neuroanatomical signature of a trait. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5749-56.	3.3	53
72	Volumetric and fiber-tracing MRI methods for gray and white matter. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2016, 135, 39-60.	1.0	13

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73	Comprehensive cellularâ€resolution atlas of the adult human brain. Journal of Comparative Neurology, 2016, 524, Spc1.	0.9	8
74	Bayesian longitudinal segmentation of hippocampal substructures in brain MRI using subject-specific atlases. NeuroImage, 2016, 141, 542-555.	2.1	130
75	Comprehensive cellularâ€resolution atlas of the adult human brain. Journal of Comparative Neurology, 2016, 524, 3127-3481.	0.9	302
76	FreeSurfer is useful for early detection of Rasmussen's encephalitis prior to obvious atrophy. Developmental Medicine and Child Neurology, 2016, 58, 209-210.	1.1	6
77	Prospective motion correction with volumetric navigators (vNavs) reduces the bias and variance in brain morphometry induced by subject motion. NeuroImage, 2016, 127, 11-22.	2.1	109
78	Joint reconstruction of white-matter pathways from longitudinal diffusion MRI data with anatomical priors. NeuroImage, 2016, 127, 277-286.	2.1	48
79	Hierarchical Clustering of Tractography Streamlines Based on Anatomical Similarity. Lecture Notes in Computer Science, 2016, , 184-191.	1.0	5
80	A Fast Approach to Automatic Detection of Brain Lesions. Lecture Notes in Computer Science, 2016, 10154, 52-61.	1.0	4
81	Brain Genomics Superstruct Project initial data release with structural, functional, and behavioral measures. Scientific Data, 2015, 2, 150031.	2.4	318
82	Multiâ€modal robust inverseâ€consistent linear registration. Human Brain Mapping, 2015, 36, 1365-1380.	1.9	5
83	A FreeSurfer-compliant consistent manual segmentation of infant brains spanning the 0Ã¢â‚¬â€œ2 year age range. Frontiers in Human Neuroscience, 2015, 9, 21.	1.0	60
84	BrainPrint: A discriminative characterization of brain morphology. NeuroImage, 2015, 109, 232-248.	2.1	128
85	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	13.7	772
86	An algorithm for optimal fusion of atlases with different labeling protocols. NeuroImage, 2015, 106, 451-463.	2.1	16
87	Gray matter myelination of 1555 human brains using partial volume corrected MRI images. NeuroImage, 2015, 105, 473-485.	2.1	141
88	Avoiding symmetry-breaking spatial non-uniformity in deformable image registration via a quasi-volume-preserving constraint. NeuroImage, 2015, 106, 238-251.	2.1	8
89	White matter signal abnormality quality differentiates mild cognitive impairment that converts to Alzheimer's disease from nonconverters. Neurobiology of Aging, 2015, 36, 2447-2457.	1.5	41
90	The Genetic Association Between Neocortical Volume and General Cognitive Ability Is Driven by Global Surface Area Rather Than Thickness. Cerebral Cortex, 2015, 25, 2127-2137.	1.6	84

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91	A computational atlas of the hippocampal formation using ex vivo, ultra-high resolution MRI: Application to adaptive segmentation of in vivo MRI. NeuroImage, 2015, 115, 117-137.	2.1	939
92	Optical coherence tomography visualizes neurons in human entorhinal cortex. Neurophotonics, 2015, 2, 015004.	1.7	52
93	Bayesian segmentation of brainstem structures in MRI. NeuroImage, 2015, 113, 184-195.	2.1	186
94	Relevant feature set estimation with a knock-out strategy and random forests. NeuroImage, 2015, 122, 131-148.	2.1	20
95	Assessing atrophy measurement techniques in dementia: Results from the MIRIAD atrophy challenge. NeuroImage, 2015, 123, 149-164.	2.1	63
96	Head motion during MRI acquisition reduces gray matter volume and thickness estimates. NeuroImage, 2015, 107, 107-115.	2.1	399
97	Mid-Space-Independent Symmetric Data Term for Pairwise Deformable Image Registration. Lecture Notes in Computer Science, 2015, 9350, 263-271.	1.0	1
98	Conceptual and Data-based Investigation of Genetic Influences and Brain Asymmetry: A Twin Study of Multiple Structural Phenotypes. Journal of Cognitive Neuroscience, 2014, 26, 1100-1117.	1.1	50
99	Automated MRI parcellation of the frontal lobe. Human Brain Mapping, 2014, 35, 2009-2026.	1.9	22
100	Transcriptional landscape of the prenatal human brain. Nature, 2014, 508, 199-206.	13.7	1,147
101	Impact of MRI head placement on glioma response assessment. Journal of Neuro-Oncology, 2014, 118, 123-129.	1.4	38
102	Spurious group differences due to head motion in a diffusion MRI study. NeuroImage, 2014, 88, 79-90.	2.1	455
103	Blockface histology with optical coherence tomography: A comparison with Nissl staining. NeuroImage, 2014, 84, 524-533.	2.1	87
104	Cross-validation of serial optical coherence scanning and diffusion tensor imaging: A study on neural fiber maps in human medulla oblongata. NeuroImage, 2014, 100, 395-404.	2.1	63
105	H.M.'s contributions to neuroscience: A review and autopsy studies. Hippocampus, 2014, 24, 1267-1286.	0.9	80
106	Differences in the right inferior longitudinal fasciculus but no general disruption of white matter tracts in children with autism spectrum disorder. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1981-1986.	3.3	95
107	MRI parcellation of ex vivo medial temporal lobe. NeuroImage, 2014, 93, 252-259.	2.1	37
108	Event time analysis of longitudinal neuroimage data. NeuroImage, 2014, 97, 9-18.	2.1	28

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109	Cortical surface-based analysis reduces bias and variance in kinetic modeling of brain PET data. NeuroImage, 2014, 92, 225-236.	2.1	179
110	Quantitative comparison of cortical surface reconstructions from MP2RAGE and multi-echo MPRAGE data at 3 and 7T. NeuroImage, 2014, 90, 60-73.	2.1	85
111	Localizing the human primary auditory cortex in vivo using structural MRI. NeuroImage, 2014, 93, 237-251.	2.1	33
112	Tracking the Roots of Reading Ability: White Matter Volume and Integrity Correlate with Phonological Awareness in Prereading and Early-Reading Kindergarten Children. Journal of Neuroscience, 2013, 33, 13251-13258.	1.7	207
113	A Surface-based Analysis of Language Lateralization and Cortical Asymmetry. Journal of Cognitive Neuroscience, 2013, 25, 1477-1492.	1.1	188
114	Cognitive reserve moderates the association between hippocampal volume and episodic memory in middle age. Neuropsychologia, 2013, 51, 1124-1131.	0.7	38
115	On Removing Interpolation and Resampling Artifacts in Rigid Image Registration. IEEE Transactions on Image Processing, 2013, 22, 816-827.	6.0	28
116	The minimal preprocessing pipelines for the Human Connectome Project. NeuroImage, 2013, 80, 105-124.	2.1	4,042
117	Predicting the location of human perirhinal cortex, Brodmann's area 35, from MRI. NeuroImage, 2013, 64, 32-42.	2.1	81
118	Statistical analysis of longitudinal neuroimage data with Linear Mixed Effects models. NeuroImage, 2013, 66, 249-260.	2.1	298
119	Symmetric non-rigid image registration via an adaptive quasi-volume-preserving constraint. , 2013, 2013, 230-233.		5
120	Spatiotemporal linear mixed effects modeling for the mass-univariate analysis of longitudinal neuroimage data. NeuroImage, 2013, 81, 358-370.	2.1	111
121	Medial temporal cortices in ex vivo magnetic resonance imaging. Journal of Comparative Neurology, 2013, 521, 4177-4188.	0.9	20
122	Genetic topography of brain morphology. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17089-17094.	3.3	197
123	Example-Based Restoration of High-Resolution Magnetic Resonance Image Acquisitions. Lecture Notes in Computer Science, 2013, 16, 131-138.	1.0	18
124	Is Synthesizing MRI Contrast Useful for Inter-modality Analysis?. Lecture Notes in Computer Science, 2013, 16, 631-638.	1.0	81
125	Estimating the Location of Brodmann Areas from Cortical Folding Patterns Using Histology and Ex Vivo MRI. , 2013, , 129-156.		1
126	The Association between a Polygenic Alzheimer Score and Cortical Thickness in Clinically Normal Subjects. Cerebral Cortex, 2012, 22, 2653-2661.	1.6	145

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127	A Comparison of Heritability Maps of Cortical Surface Area and Thickness and the Influence of Adjustment for Whole Brain Measures: A Magnetic Resonance Imaging Twin Study. Twin Research and Human Genetics, 2012, 15, 304-314.	0.3	120
128	How to Measure Cortical Folding from MR Images: a Step-by-Step Tutorial to Compute Local Gyrification Index. Journal of Visualized Experiments, 2012, , e3417.	0.2	95
129	Within-subject template estimation for unbiased longitudinal image analysis. NeuroImage, 2012, 61, 1402-1418.	2.1	1,925
130	Validating atlas-guided DOT: A comparison of diffuse optical tomography informed by atlas and subject-specific anatomies. NeuroImage, 2012, 62, 1999-2006.	2.1	81
131	Genetic and environmental influences of white and gray matter signal contrast: A new phenotype for imaging genetics?. NeuroImage, 2012, 60, 1686-1695.	2.1	32
132	Heritability of brain ventricle volume: Converging evidence from inconsistent results. Neurobiology of Aging, 2012, 33, 1-8.	1.5	351
133	Genetic influences on hippocampal volume differ as a function of testosterone level in middle-aged men. NeuroImage, 2012, 59, 1123-1131.	2.1	17
134	FreeSurfer. NeuroImage, 2012, 62, 774-781.	2.1	6,482
135	Measuring and comparing brain cortical surface area and other areal quantities. NeuroImage, 2012, 61, 1428-1443.	2.1	157
136	Hierarchical Genetic Organization of Human Cortical Surface Area. Science, 2012, 335, 1634-1636.	6.0	266
137	Volumetric navigators for prospective motion correction and selective reacquisition in neuroanatomical MRI. Magnetic Resonance in Medicine, 2012, 68, 389-399.	1.9	338
138	Entorhinal verrucae correlate with surface geometry. Translational Neuroscience, 2012, 3, .	0.7	2
139	Entorhinal verrucae geometry is coincident and correlates with Alzheimer's lesions: a combined neuropathology and high-resolution ex vivo MRI analysis. Acta Neuropathologica, 2012, 123, 85-96.	3.9	21
140	The organization of the human cerebral cortex estimated by intrinsic functional connectivity. Journal of Neurophysiology, 2011, 106, 1125-1165.	0.9	6,420
141	Avoiding asymmetry-induced bias in longitudinal image processing. NeuroImage, 2011, 57, 19-21.	2.1	407
142	Connectivity-based segmentation of human amygdala nuclei using probabilistic tractography. NeuroImage, 2011, 56, 1353-1361.	2.1	119
143	Thickness of the human cerebral cortex is associated with metrics of cerebrovascular health in a normative sample of community dwelling older adults. NeuroImage, 2011, 54, 2659-2671.	2.1	122
144	Genetic Influences on Cortical Regionalization in the Human Brain. Neuron, 2011, 72, 537-544.	3.8	118

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145	Consistent neuroanatomical age-related volume differences across multiple samples. Neurobiology of Aging, 2011, 32, 916-932.	1.5	437
146	Automated probabilistic reconstruction of white-matter pathways in health and disease using an atlas of the underlying anatomy. Frontiers in Neuroinformatics, 2011, 5, 23.	1.3	488
147	Presence of ApoE Îµ4 Allele Associated with Thinner Frontal Cortex in Middle Age. Journal of Alzheimer's Disease, 2011, 26, 49-60.	1.2	68
148	A tale of two factors: What determines the rate of progression in Huntington's disease? A longitudinal MRI study. Movement Disorders, 2011, 26, 1691-1697.	2.2	55
149	Amyloidâ€Î² associated cortical thinning in clinically normal elderly. Annals of Neurology, 2011, 69, 1032-1042.	2.8	306
150	Genetic patterns of correlation among subcortical volumes in humans: Results from a magnetic resonance imaging twin study. Human Brain Mapping, 2011, 32, 641-653.	1.9	47
151	The Dynamics of Cortical and Hippocampal Atrophy in Alzheimer Disease. Archives of Neurology, 2011, 68, 1040.	4.9	267
152	Genetic and Environmental Contributions to Regional Cortical Surface Area in Humans: A Magnetic Resonance Imaging Twin Study. Cerebral Cortex, 2011, 21, 2313-2321.	1.6	88
153	Brain Structure Correlates of Individual Differences in the Acquisition and Inhibition of Conditioned Fear. Cerebral Cortex, 2011, 21, 1954-1962.	1.6	131
154	Spherical Demons: Fast Diffeomorphic Landmark-Free Surface Registration. IEEE Transactions on Medical Imaging, 2010, 29, 650-668.	5.4	301
155	Learning Task-Optimal Registration Cost Functions for Localizing Cytoarchitecture and Function in the Cerebral Cortex. IEEE Transactions on Medical Imaging, 2010, 29, 1424-1441.	5.4	57
156	A Generative Model for Image Segmentation Based on Label Fusion. IEEE Transactions on Medical Imaging, 2010, 29, 1714-1729.	5.4	423
157	Direct visualization of the perforant pathway in the human brain with ex vivo diffusion tensor imaging. Frontiers in Human Neuroscience, 2010, 4, 42.	1.0	74
158	Toward Implementing an MRI-Based PET Attenuation-Correction Method for Neurologic Studies on the MR-PET Brain Prototype. Journal of Nuclear Medicine, 2010, 51, 1431-1438.	2.8	413
159	Cortical Thickness Is Influenced by Regionally Specific Genetic Factors. Biological Psychiatry, 2010, 67, 493-499.	0.7	124
160	Evaluation of volume-based and surface-based brain image registration methods. NeuroImage, 2010, 51, 214-220.	2.1	237
161	Improved tractography alignment using combined volumetric and surface registration. NeuroImage, 2010, 51, 206-213.	2.1	64
162	Salivary cortisol and prefrontal cortical thickness in middle-aged men: A twin study. NeuroImage, 2010, 53, 1093-1102.	2.1	88

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163	Laminar analysis of 7T BOLD using an imposed spatial activation pattern in human V1. NeuroImage, 2010, 52, 1334-1346.	2.1	378
164	Evaluating the validity of volume-based and surface-based brain image registration for developmental cognitive neuroscience studies in children 4 to 11years of age. NeuroImage, 2010, 53, 85-93.	2.1	243
165	Automatic parcellation of human cortical gyri and sulci using standard anatomical nomenclature. NeuroImage, 2010, 53, 1-15.	2.1	2,251
166	Highly accurate inverse consistent registration: A robust approach. NeuroImage, 2010, 53, 1181-1196.	2.1	1,099
167	Automated MRI measures predict progression to Alzheimer's disease. Neurobiology of Aging, 2010, 31, 1364-1374.	1.5	91
168	Genetic and environmental influences on the size of specific brain regions in midlife: The VETSA MRI study. NeuroImage, 2010, 49, 1213-1223.	2.1	208
169	Anatomical atlas-guided diffuse optical tomography of brain activation. NeuroImage, 2010, 49, 561-567.	2.1	125
170	Altered white matter microstructure in the corpus callosum in Huntington's disease: Implications for cortical â€œdisconnectionâ€. NeuroImage, 2010, 49, 2995-3004.	2.1	231
171	Atlas Generation for Subcortical and Ventricular Structures With Its Applications in Shape Analysis. IEEE Transactions on Image Processing, 2010, 19, 1539-1547.	6.0	43
172	Selective Disruption of the Cerebral Neocortex in Alzheimer's Disease. PLoS ONE, 2010, 5, e12853.	1.1	69
173	Anatomical priors for global probabilistic diffusion tractography. , 2009, , .		1
174	Automated MRI measures identify individuals with mild cognitive impairment and Alzheimer's disease. Brain, 2009, 132, 2048-2057.	3.7	341
175	Distinct Genetic Influences on Cortical Surface Area and Cortical Thickness. Cerebral Cortex, 2009, 19, 2728-2735.	1.6	1,109
176	Widespread Reductions of Cortical Thickness in Schizophrenia and Spectrum Disorders and Evidence of Heritability. Archives of General Psychiatry, 2009, 66, 467.	13.8	235
177	The Cortical Signature of Alzheimer's Disease: Regionally Specific Cortical Thinning Relates to Symptom Severity in Very Mild to Mild AD Dementia and is Detectable in Asymptomatic Amyloid-Positive Individuals. Cerebral Cortex, 2009, 19, 497-510.	1.6	861
178	High Consistency of Regional Cortical Thinning in Aging across Multiple Samples. Cerebral Cortex, 2009, 19, 2001-2012.	1.6	580
179	Minute Effects of Sex on the Aging Brain: A Multisample Magnetic Resonance Imaging Study of Healthy Aging and Alzheimer's Disease. Journal of Neuroscience, 2009, 29, 8774-8783.	1.7	111
180	Segmental Brain Volumes and Cognitive and Perceptual Correlates inÂ15-Year-Old Adolescents with Low Birth Weight. Journal of Pediatrics, 2009, 155, 848-853.e1.	0.9	87

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181	Combined Volumetric and Surface Registration. IEEE Transactions on Medical Imaging, 2009, 28, 508-522.	5.4	144
182	Collaborative computational anatomy: An MRI morphometry study of the human brain via diffeomorphic metric mapping. Human Brain Mapping, 2009, 30, 2132-2141.	1.9	48
183	Automated segmentation of hippocampal subfields from ultra€high resolution in vivo MRI. Hippocampus, 2009, 19, 549-557.	0.9	381
184	Fully€automated, multi€stage hippocampus mapping in very mild Alzheimer disease. Hippocampus, 2009, 19, 541-548.	0.9	32
185	Differential effects of aging and Alzheimer's disease on medial temporal lobe cortical thickness and surface area. Neurobiology of Aging, 2009, 30, 432-440.	1.5	249
186	An MRI-based method for measuring volume, thickness and surface area of entorhinal, perirhinal, and posterior parahippocampal cortex. Neurobiology of Aging, 2009, 30, 420-431.	1.5	56
187	Regional white matter volume differences in nondemented aging and Alzheimer's disease. NeuroImage, 2009, 44, 1247-1258.	2.1	267
188	Target-specific contrast agents for magnetic resonance microscopy. NeuroImage, 2009, 46, 382-393.	2.1	29
189	Cognitive function and brain structure correlations in healthy elderly East Asians. NeuroImage, 2009, 46, 257-269.	2.1	95
190	MRI-derived measurements of human subcortical, ventricular and intracranial brain volumes: Reliability effects of scan sessions, acquisition sequences, data analyses, scanner upgrade, scanner vendors and field strengths. NeuroImage, 2009, 46, 177-192.	2.1	482
191	Locating the functional and anatomical boundaries of human primary visual cortex. NeuroImage, 2009, 46, 915-922.	2.1	98
192	Predicting the location of entorhinal cortex from MRI. NeuroImage, 2009, 47, 8-17.	2.1	94
193	Increased sensitivity to effects of normal aging and Alzheimer's disease on cortical thickness by adjustment for local variability in gray/white contrast: A multi-sample MRI study. NeuroImage, 2009, 47, 1545-1557.	2.1	103
194	Accurate and robust brain image alignment using boundary-based registration. NeuroImage, 2009, 48, 63-72.	2.1	2,808
195	Supervised Nonparametric Image Parcellation. Lecture Notes in Computer Science, 2009, 12, 1075-1083.	1.0	6
196	Task-Optimal Registration Cost Functions. Lecture Notes in Computer Science, 2009, 12, 598-606.	1.0	6
197	Nonparametric Mixture Models for Supervised Image Parcellation. , 2009, 12, 301-313.		3
198	Effects of registration regularization and atlas sharpness on segmentation accuracy. Medical Image Analysis, 2008, 12, 603-615.	7.0	82

#	Article	IF	Citations
199	Heritability of Brain Morphology Related to Schizophrenia: A Large-Scale Automated Magnetic Resonance Imaging Segmentation Study. Biological Psychiatry, 2008, 63, 475-483.	0.7	134
200	Accurate prediction of V1 location from cortical folds in a surface coordinate system. NeuroImage, 2008, 39, 1585-1599.	2.1	221
201	Brain morphometry with multiecho MPRAGE. NeuroImage, 2008, 40, 559-569.	2.1	512
202	The relationship between diffusion tensor imaging and volumetry as measures of white matter properties. NeuroImage, 2008, 42, 1654-1668.	2.1	136
203	Cerebral cortex and the clinical expression of Huntington's disease: complexity and heterogeneity. Brain, 2008, 131, 1057-1068.	3.7	438
204	Cortical Folding Patterns and Predicting Cytoarchitecture. Cerebral Cortex, 2008, 18, 1973-1980.	1.6	691
205	The Intrinsic Shape of Human and Macaque Primary Visual Cortex. Cerebral Cortex, 2008, 18, 2586-2595.	1.6	35
206	Shape Analysis with Overcomplete Spherical Wavelets. Lecture Notes in Computer Science, 2008, 11, 468-476.	1.0	19
207	Spherical Demons: Fast Surface Registration. Lecture Notes in Computer Science, 2008, 11, 745-753.	1.0	38
208	Model-Based Segmentation of Hippocampal Subfields in Ultra-High Resolution In Vivo MRI. Lecture Notes in Computer Science, 2008, 11, 235-243.	1.0	19
209	Cortical Folding Development Study based on Over-Complete Spherical Wavelets. , 2007, 2007, .		14
210	Neural Activity Is Modulated by Trial History: A Functional Magnetic Resonance Imaging Study of the Effects of a Previous Antisaccade. Journal of Neuroscience, 2007, 27, 1791-1798.	1.7	70
211	Phase maps reveal cortical architecture. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11513-11514.	3.3	29
212	Reduced microstructural integrity of the white matter underlying anterior cingulate cortex is associated with increased saccadic latency in schizophrenia. NeuroImage, 2007, 37, 599-610.	2.1	78
213	Atlas Renormalization for Improved Brain MR Image Segmentation Across Scanner Platforms. IEEE Transactions on Medical Imaging, 2007, 26, 479-486.	5.4	193
214	Geometrically Accurate Topology-Correction of Cortical Surfaces Using Nonseparating Loops. IEEE Transactions on Medical Imaging, 2007, 26, 518-529.	5.4	848
215	Cortical Surface Shape Analysis Based on Spherical Wavelets. IEEE Transactions on Medical Imaging, 2007, 26, 582-597.	5.4	87
216	What Data to Co-register for Computing Atlases. , 2007, 2007, .		5

#	Article	IF	Citations
217	Detecting Cortical Surface Regions in Structural MR Data. , 2007, , .		2
218	Abnormal cortical folding patterns within Broca's area in schizophrenia: Evidence from structural MRI. Schizophrenia Research, 2007, 94, 317-327.	1.1	69
219	A Role for the Human Dorsal Anterior Cingulate Cortex in Fear Expression. Biological Psychiatry, 2007, 62, 1191-1194.	0.7	425
220	A technique for the deidentification of structural brain MR images. Human Brain Mapping, 2007, 28, 892-903.	1.9	124
221	Cognitive function, P3a/P3b brain potentials, and cortical thickness in aging. Human Brain Mapping, 2007, 28, 1098-1116.	1.9	51
222	Changes in Cerebral Cortex of Children Treated for Medulloblastoma. International Journal of Radiation Oncology Biology Physics, 2007, 68, 992-998.	0.4	36
223	Cortical atrophy is relevant in multiple sclerosis at clinical onset. Journal of Neurology, 2007, 254, 1212-1220.	1.8	208
224	Feasibility of Multi-site Clinical Structural Neuroimaging Studies of Aging Using Legacy Data. Neuroinformatics, 2007, 5, 235-245.	1.5	103
225	Geometry Driven Volumetric Registration. Lecture Notes in Computer Science, 2007, 20, 675-686.	1.0	5
226	Effects of Registration Regularization and Atlas Sharpness on Segmentation Accuracy. , 2007, 10, 683-691.		10
227	Cortical Surface Shape Analysis Based on Spherical Wavelet Transformation. , 2006, 2006, .		3
228	Selective increase of cortical thickness in high-performing elderly—structural indices of optimal cognitive aging. NeuroImage, 2006, 29, 984-994.	2.1	112
229	Reliability in multi-site structural MRI studies: Effects of gradient non-linearity correction on phantom and human data. NeuroImage, 2006, 30, 436-443.	2.1	1,107
230	Regional cortical thickness matters in recall after months more than minutes. NeuroImage, 2006, 31, 1343-1351.	2.1	66
231	An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. NeuroImage, 2006, 31, 968-980.	2.1	10,125
232	Reliability of MRI-derived measurements of human cerebral cortical thickness: The effects of field strength, scanner upgrade and manufacturer. NeuroImage, 2006, 32, 180-194.	2.1	1,337
233	Human cerebral cortex: A system for the integration of volume- and surface-based representations. NeuroImage, 2006, 33, 139-153.	2.1	66
234	Detailed semiautomated MRI based morphometry of the neonatal brain: Preliminary results. NeuroImage, 2006, 32, 1041-1049.	2.1	58

#	Article	IF	Citations
235	Mapping an intrinsic MR property of gray matter in auditory cortex of living humans: A possible marker for primary cortex and hemispheric differences. NeuroImage, 2006, 32, 1524-1537.	2.1	144
236	The functional and structural significance of the frontal shift in the old/new ERP effect. Brain Research, 2006, 1081, 156-170.	1.1	17
237	Quantitative evaluation of automated skull-stripping methods applied to contemporary and legacy images: Effects of diagnosis, bias correction, and slice location. Human Brain Mapping, 2006, 27, 99-113.	1.9	161
238	Location and spatial profile of category-specific regions in human extrastriate cortex. Human Brain Mapping, 2006, 27, 77-89.	1.9	249
239	Comparison of Manual and Automatic Section Positioning of Brain MR Images. Radiology, 2006, 239, 246-254.	3.6	47
240	Orbitofrontal thickness, retention of fear extinction, and extraversion. NeuroReport, 2005, 16, 1909-1912.	0.6	120
241	Meditation experience is associated with increased cortical thickness. NeuroReport, 2005, 16, 1893-1897.	0.6	1,258
242	A Genetic Algorithm for the Topology Correction of Cortical Surfaces. Lecture Notes in Computer Science, 2005, 19, 393-405.	1.0	75
243	Cortical volume and speed-of-processing are complementary in prediction of performance intelligence. Neuropsychologia, 2005, 43, 704-713.	0.7	58
244	Differing neuropsychological and neuroanatomical correlates of abnormal reading in early-stage semantic dementia and dementia of the Alzheimer type. Neuropsychologia, 2005, 43, 833-846.	0.7	43
245	Age does not increase rate of forgetting over weeks—Neuroanatomical volumes and visual memory across the adult life-span. Journal of the International Neuropsychological Society, 2005, 11, 2-15.	1.2	30
246	On-line automatic slice positioning for brain MR imaging. NeuroImage, 2005, 27, 222-230.	2.1	166
247	Thickness of ventromedial prefrontal cortex in humans is correlated with extinction memory. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10706-10711.	3.3	362
248	Neuroanatomical aging: Universal but not uniform. Neurobiology of Aging, 2005, 26, 1279-1282.	1.5	93
249	Effects of age on volumes of cortex, white matter and subcortical structures. Neurobiology of Aging, 2005, 26, 1261-1270.	1.5	552
250	Active Contours Under Topology Control Genus Preserving Level Sets. Lecture Notes in Computer Science, 2005, , 135-145.	1.0	12
251	Automatically Parcellating the Human Cerebral Cortex. Cerebral Cortex, 2004, 14, 11-22.	1.6	3,657
252	Thinning of the Cerebral Cortex in Aging. Cerebral Cortex, 2004, 14, 721-730.	1.6	1,556

#	Article	IF	Citations
253	A magnetic resonance imaging study of cortical thickness in animal phobia. Biological Psychiatry, 2004, 55, 946-952.	0.7	37
254	Sequence-independent segmentation of magnetic resonance images. NeuroImage, 2004, 23, S69-S84.	2.1	1,858
255	Chapter 52 Aids to telemetry in the presurgical evaluation of epilepsy patients: MRI, MEG and other non-invasive imaging techniques. Supplements To Clinical Neurophysiology, 2004, 57, 494-502.	2.1	5
256	Regionally Localized Thinning of the Cerebral Cortex in Schizophrenia. Archives of General Psychiatry, 2003, 60, 878.	13.8	809
257	Human Cerebellum: Surface-Assisted Cortical Parcellation and Volumetry with Magnetic Resonance Imaging. Journal of Cognitive Neuroscience, 2003, 15, 584-599.	1.1	70
258	Focal thinning of the cerebral cortex in multiple sclerosis. Brain, 2003, 126, 1734-1744.	3.7	352
259	Permutation Tests for Classification: Towards Statistical Significance in Image-Based Studies. Lecture Notes in Computer Science, 2003, 18, 330-341.	1.0	254
260	Topological Correction of Subcortical Segmentation. Lecture Notes in Computer Science, 2003, , 695-702.	1.0	19
261	Whole Brain Segmentation. Neuron, 2002, 33, 341-355.	3.8	7,404
262	Discriminative Analysis for Image-Based Studies. Lecture Notes in Computer Science, 2002, , 508-515.	1.0	18
263	Automatic segmentation of the structures in the human brain. NeuroImage, 2001, 13, 118.	2.1	10
264	Cortical Mechanisms Specific to Explicit Visual Object Recognition. Neuron, 2001, 29, 529-535.	3.8	421
265	Segregation of Somatosensory Activation in the Human Rolandic Cortex Using fMRI. Journal of Neurophysiology, 2000, 84, 558-569.	0.9	156
266	The Representation of Illusory and Real Contours in Human Cortical Visual Areas Revealed by Functional Magnetic Resonance Imaging. Journal of Neuroscience, 1999, 19, 8560-8572.	1.7	402
267	High-resolution intersubject averaging and a coordinate system for the cortical surface. , 1999, 8, 272-284.		2,757
268	Cortical Surface-Based Analysis. NeuroImage, 1999, 9, 179-194.	2.1	9,194
269	Cortical Surface-Based Analysis. NeuroImage, 1999, 9, 195-207.	2.1	5,599