Michael I Miller

List of Publications by Year
in descending order

206 papers	16,155 citations	17405 63 h-index	18075 120 g-index
222 all docs	222 docs citations	222 times ranked	14699 citing authors

#	Article	IF	Citations
1	A comparative neuroimaging perspective of olfaction and higher-order olfactory processing: on health and disease. Seminars in Cell and Developmental Biology, 2022, 129, 22-30.	2.3	4
2	A diffusion MRI-based spatiotemporal continuum of the embryonic mouse brain for probing geneâ€“neuroanatomy connections. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	4
3	Hidden Markov modeling for maximum probability neuron reconstruction. Communications Biology, 2022, 5, 388.	2.0	4
4	Multimodal crossâ€registration and quantification of metric distortions in marmoset whole brain histology using diffeomorphic mappings. Journal of Comparative Neurology, 2021, 529, 281-295.	0.9	8
5	The Brain Chart of Aging: Machineâ€learning analytics reveals links between brain aging, white matter disease, amyloid burden, and cognition in the iSTAGING consortium of 10,216 harmonized MR scans. Alzheimer's and Dementia, 2021, 17, 89-102.	0.4	92
6	Association of Lifestyle Activities with Functional Brain Connectivity and Relationship to Cognitive Decline among Older Adults. Cerebral Cortex, 2021, 31, 5637-5651.	1.6	13
7	Multi scale diffeomorphic metric mapping of spatial transcriptomics datasets. , 2021, , .		4
8	Fitting Splines to Axonal Arbors Quantifies Relationship Between Branch Order and Geometry. Frontiers in Neuroinformatics, 2021, 15, 704627.	1.3	4
9	Computerized paired associate learning performance and imaging biomarkers in older adults without dementia. Brain Imaging and Behavior, 2021, , 1.	1.1	2
10	Cognitive reserve and rate of change in Alzheimer's and cerebrovascular disease biomarkers among cognitively normal individuals. Neurobiology of Aging, 2020, 88, 33-41.	1.5	19
11	Infinitesimal Drift Diffeomorphometry Models for Population Shape Analysis. , 2020, , .		3
12	Entorhinal and Transentorhinal Atrophy in Preclinical Alzheimer's Disease. Frontiers in Neuroscience, 2020, 14, 804.	1.4	27
13	The Association of Adverse Pregnancy Outcomes and Cardiovascular Disease: Current Knowledge and Future Directions. Current Treatment Options in Cardiovascular Medicine, 2020, 22, 1.	0.4	25
14	Diffeomorphic Registration With Intensity Transformation and Missing Data: Application to 3D Digital Pathology of Alzheimer's Disease. Frontiers in Neuroscience, 2020, 14, 52.	1.4	31
15	Core Competencies for Undergraduates in Bioengineering and Biomedical Engineering: Findings, Consequences, and Recommendations. Annals of Biomedical Engineering, 2020, 48, 905-912.	1.3	37
16	Association of peripheral inflammatory markers with connectivity in large-scale functional brain networks of non-demented older adults. Brain, Behavior, and Immunity, 2020, 87, 388-396.	2.0	27
17	Using deep Siamese neural networks for detection of brain asymmetries associated with Alzheimer's Disease and Mild Cognitive Impairment. Magnetic Resonance Imaging, 2019, 64, 190-199.	1.0	56
18	Extended multimodal whole-brain anatomical covariance analysis: detection of disrupted correlation networks related to amyloid deposition. Heliyon, 2019, 5, e02074.	1.4	4

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19	Relation of koniocellular layers of dorsal lateral geniculate to inferior pulvinar nuclei in common marmosets. European Journal of Neuroscience, 2019, 50, 4004-4017.	1.2	11
20	Testâ€“retest reproducibility of a multiâ€atlas automated segmentation tool on multimodality brain MRI. Brain and Behavior, 2019, 9, e01363.	1.0	25
21	Diffeomorphic Upsampling of Serially Acquired Sparse 2D Cross-Sections in Cardiac MRI. , 2019, 2019, 4491-4495.		4
22	Expanding the Computational Anatomy Gateway from clinical imaging to basic neuroscience research. , 2019, , .		0
23	Developmental trajectories of the human embryologic brain regions. Neuroscience Letters, 2019, 708, 134342.	1.0	1
24	Magnetic resonance imaging of mouse brain networks plasticity following motor learning. PLoS ONE, 2019, 14, e0216596.	1.1	20
25	Brain Oxygen Extraction by Using MRI in Older Individuals: Relationship to Apolipoprotein E Genotype and Amyloid Burden. Radiology, 2019, 292, 140-148.	3.6	20
26	Identifying Changepoints in Biomarkers During the Preclinical Phase of Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2019, 11, 74.	1.7	59
27	Multi-atlas based detection and localization (MADL) for location-dependent quantification of white matter hyperintensities. NeuroImage: Clinical, 2019, 22, 101772.	1.4	13
28	Response control correlates of anomalous basal ganglia morphology in boys, but not girls, with attention-deficit/hyperactivity disorder. Behavioural Brain Research, 2019, 367, 117-127.	1.2	14
29	Cloud-Based Brain Magnetic Resonance Image Segmentation and Parcellation System for Individualized Prediction of Cognitive Worsening. Journal of Healthcare Engineering, 2019, 2019, 1-10.	1.1	5
30	Multi-atlas tool for automated segmentation of brain gray matter nuclei and quantification of their magnetic susceptibility. NeuroImage, 2019, 191, 337-349.	2.1	54
31	Automated Generation of Radiologic Descriptions on Brain Volume Changes From T1-Weighted MR Images: Initial Assessment of Feasibility. Frontiers in Neurology, 2019, 10, 7.	1.1	3
32	Resting-State Functional Connectivity Is Associated With Cerebrospinal Fluid Levels of the Synaptic Protein NPTX2 in Non-demented Older Adults. Frontiers in Aging Neuroscience, 2019, 11, 132.	1.7	22
33	ASLâ€MRICloud: An online tool for the processing of ASL MRI data. NMR in Biomedicine, 2019, 32, e4051.	1.6	33
34	Cortical thickness atrophy in the transentorhinal cortex in mild cognitive impairment. NeuroImage: Clinical, 2019, 21, 101617.	1.4	46
35	A Model for Elastic Evolution on Foliated Shapes. Lecture Notes in Computer Science, 2019, , 644-655.	1.0	5
36	3D Mapping of Serial Histology Sections with Anomalies Using a Novel Robust Deformable Registration Algorithm. Lecture Notes in Computer Science, 2019, , 162-173.	1.0	8

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37	Predicting progression from normal cognition to mild cognitive impairment for individuals at 5 years. Brain, 2018, 141, 877-887.	3.7	84
38	Cover Image, Volume 10, Issue 6. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1441.	6.6	0
39	Estimating diffeomorphic mappings between templates and noisy data: Variance bounds on the estimated canonical volume form. Quarterly of Applied Mathematics, 2018, 77, 467-488.	0.5	5
40	ICâ€Pâ€061: QUANTIFICATION OF 3D TANGLE DISTRIBUTION IN MEDIAL TEMPORAL LOBE USING MULTIMODAL IMAGE REGISTRATION AND CONVOLUTIONAL NEURAL NETWORKS. Alzheimer's and Dementia, 2018, 14, P57.	0.4	3
41	On variational solutions for whole brain serial-section histology using a Sobolev prior in the computational anatomy random orbit model. PLoS Computational Biology, 2018, 14, e1006610.	1.5	17
42	Computational anatomy and diffeomorphometry: A dynamical systems model of neuroanatomy in the soft condensed matter continuum. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1425.	6.6	7
43	Whole-brain Segmentation and Change-point Analysis of Anatomical Brain MRI—Application in Premanifest Huntington's Disease. Journal of Visualized Experiments, 2018, , .	0.2	4
44	Atlas pre-selection strategies to enhance the efficiency and accuracy of multi-atlas brain segmentation tools. PLoS ONE, 2018, 13, e0200294.	1.1	7
45	A Fully-Automated Subcortical and Ventricular Shape Generation Pipeline Preserving Smoothness and Anatomical Topology. Frontiers in Neuroscience, 2018, 12, 321.	1.4	14
46	Parametric Surface Diffeomorphometry for Low Dimensional Embeddings of Dense Segmentations and Imagery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1195-1208.	9.7	18
47	Surfaceâ€based vertexwise analysis of morphometry and microstructural integrity for white matter tracts in diffusion tensor imaging: With application to the corpus callosum in Alzheimer's disease. Human Brain Mapping, 2017, 38, 1875-1893.	1.9	13
48	Novel automated morphometric and kinematic handwriting assessment: A validity study in children with ASD and ADHD. Journal of Occupational Therapy, Schools, and Early Intervention, 2017, 10, 185-201.	0.4	9
49	Population-averaged macaque brain atlas with high-resolution ex vivo DTI integrated into in vivo space. Brain Structure and Function, 2017, 222, 4131-4147.	1.2	36
50	Entorhinal and transentorhinal atrophy in mild cognitive impairment using longitudinal diffeomorphometry. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2017, 9, 41-50.	1.2	24
51	Biomarker change-point estimation with right censoring in longitudinal studies. Annals of Applied Statistics, 2017, 11, 1738-1762.	0.5	3
52	A Large Deformation Diffeomorphic Approach to Registration of CLARITY Images via Mutual Information. Lecture Notes in Computer Science, 2017, , 275-282.	1.0	8
53	Progressive medial temporal lobe atrophy during preclinical Alzheimer's disease. NeuroImage: Clinical, 2017, 16, 439-446.	1.4	32
54	Cognitive reserve and long-term change in cognition in aging and preclinical Alzheimer's disease. Neurobiology of Aging, 2017, 60, 164-172.	1.5	118

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55	Performance of Image Matching in the Computational Anatomy Gateway. , 2017, , .		1
56	Mapping the order and pattern of brain structural MRI changes using changeâ€point analysis in premanifest Huntington's disease. Human Brain Mapping, 2017, 38, 5035-5050.	1.9	28
57	Education is associated with sub-regions of the hippocampus and the amygdala vulnerable to neuropathologies of Alzheimerâ€™s disease. Brain Structure and Function, 2017, 222, 1469-1479.	1.2	24
58	Cognitive reserve and cortical thickness in preclinical Alzheimerâ€™s disease. Brain Imaging and Behavior, 2017, 11, 357-367.	1.1	45
59	Elucidation of White Matter Tracts of the Human Amygdala by Detailed Comparison between High-Resolution Postmortem Magnetic Resonance Imaging and Histology. Frontiers in Neuroanatomy, 2017, 11, 16.	0.9	33
60	On the Complexity of Human Neuroanatomy at the Millimeter Morphome Scale: Developing Codes and Characterizing Entropy Indexed to Spatial Scale. Frontiers in Neuroscience, 2017, 11, 577.	1.4	4
61	Brain MRI Pattern Recognition Translated to Clinical Scenarios. Frontiers in Neuroscience, 2017, 11, 578.	1.4	12
62	Unbiased Diffeomorphic Mapping ofÂLongitudinal Data with Simultaneous Subject Specific Template Estimation. Lecture Notes in Computer Science, 2017, , 125-136.	1.0	9
63	Change Point Estimation of the Hippocampal Volumes in Alzheimer's Disease. , 2016, , .		0
64	Shape and diffusion tensor imaging based integrative analysis of the hippocampus and the amygdala in Alzheimer's disease. Magnetic Resonance Imaging, 2016, 34, 1087-1099.	1.0	47
65	Linking white matter and deep gray matter alterations in premanifest Huntington disease. NeuroImage: Clinical, 2016, 11, 450-460.	1.4	58
66	Deformably registering and annotating whole CLARITY brains to an atlas via masked LDDMM. , 2016, , .		6
67	MRICloud: Delivering High-Throughput MRI Neuroinformatics as Cloud-Based Software as a Service. Computing in Science and Engineering, 2016, 18, 21-35.	1.2	148
68	Cortical thickness in relation to clinical symptom onset in preclinical AD. NeuroImage: Clinical, 2016, 12, 116-122.	1.4	55
69	Direct estimation of patient attributes from anatomical MRI based on multi-atlas voting. NeuroImage: Clinical, 2016, 12, 570-581.	1.4	15
70	Tools for studying populations and timeseries of neuroanatomy enabled through GPU acceleration in the Computational Anatomy Gateway. , 2016, , .		6
71	Diffeomorphic Surface Registration with Atrophy Constraints. SIAM Journal on Imaging Sciences, 2016, 9, 975-1003.	1.3	8
72	An image registration pipeline for analysis of transsynaptic tracing in mice. , 2016, , .		0

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73	Shape analysis of hypertrophic and hypertensive heart disease using MRI-based 3D surface models of left ventricular geometry. Medical Image Analysis, 2016, 29, 12-23.	7.0	12
74	Resource atlases for multi-atlas brain segmentations with multiple ontology levels based on T1-weighted MRI. NeuroImage, 2016, 125, 120-130.	2.1	91
75	Reducing Variability in Anatomical Definitions Over Time Using Longitudinal Diffeomorphic Mapping. Lecture Notes in Computer Science, 2016, , 51-62.	1.0	3
76	Baseline Shape Diffeomorphometry Patterns of Subcortical and Ventricular Structures in Predicting Conversion of Mild Cognitive Impairment to Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 44, 599-611.	1.2	35
77	APOE Affects the Volume and Shape of the Amygdala and the Hippocampus in Mild Cognitive Impairment and Alzheimerâ€™s Disease: Age Matters. Journal of Alzheimer's Disease, 2015, 47, 645-660.	1.2	35
78	Relationship of medial temporal lobe atrophy, <scp>APOE</scp> genotype, and cognitive reserve in preclinical <scp>A</scp>lzheimer's disease. Human Brain Mapping, 2015, 36, 2826-2841.	1.9	84
79	Network Neurodegeneration in Alzheimerâ€™s Disease via MRI Based Shape Diffeomorphometry and High-Field Atlasing. Frontiers in Bioengineering and Biotechnology, 2015, 3, 54.	2.0	43
80	Segmentation of brain magnetic resonance images based on multi-atlas likelihood fusion: testing using data with a broad range of anatomical and photometric profiles. Frontiers in Neuroscience, 2015, 9, 61.	1.4	51
81	Evaluation of Cross-Protocol Stability of a Fully Automated Brain Multi-Atlas Parcellation Tool. PLoS ONE, 2015, 10, e0133533.	1.1	35
82	A fast atlas pre-selection procedure for multi-atlas based brain segmentation. , 2015, 2015, 3053-6.		10
83	Content-based image retrieval for brain MRI: An image-searching engine and population-based analysis to utilize past clinical data for future diagnosis. NeuroImage: Clinical, 2015, 7, 367-376.	1.4	34
84	The diffeomorphometry of regional shape change rates and its relevance to cognitive deterioration in mild cognitive impairment and <scp>A</scp>lzheimer's disease. Human Brain Mapping, 2015, 36, 2093-2117.	1.9	54
85	Morphometry of the amygdala in schizophrenia and psychotic bipolar disorder. Schizophrenia Research, 2015, 164, 199-202.	1.1	28
86	Amygdalar atrophy in symptomatic Alzheimer's disease based on diffeomorphometry: the BIOCARD cohort. Neurobiology of Aging, 2015, 36, S3-S10.	1.5	53
87	Hamiltonian Systems and Optimal Control in Computational Anatomy: 100 Years Since D'Arcy Thompson. Annual Review of Biomedical Engineering, 2015, 17, 447-509.	5.7	63
88	Detection of Time-Varying Structures by Large Deformation Diffeomorphic Metric Mapping to Aid Reading of High-Resolution CT Images of the Lung. PLoS ONE, 2014, 9, e85580.	1.1	14
89	Multi-Contrast Multi-Atlas Parcellation of Diffusion Tensor Imaging of the Human Brain. PLoS ONE, 2014, 9, e96985.	1.1	55
90	Diffeomorphometry and geodesic positioning systems for human anatomy. Technology, 2014, 02, 36-43.	1.4	57

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91	Automated segmentation of corticospinal tract in diffusion tensor images via multi-modality multi-atlas fusion. , 2014, , .		0
92	Regionally selective atrophy of subcortical structures in prodromal HD as revealed by statistical shape analysis. Human Brain Mapping, 2014, 35, 792-809.	1.9	58
93	Shape abnormalities of subcortical and ventricular structures in mild cognitive impairment and Alzheimer's disease: Detecting, quantifying, and predicting. Human Brain Mapping, 2014, 35, 3701-3725.	1.9	122
94	Inferring changepoint times of medial temporal lobe morphometric change in preclinical Alzheimer's disease. NeuroImage: Clinical, 2014, 5, 178-187.	1.4	94
95	Evaluation of group-specific, whole-brain atlas generation using Volume-based Template Estimation (VTE): Application to normal and Alzheimer's populations. NeuroImage, 2014, 84, 406-419.	2.1	21
96	Tools for multiple granularity analysis of brain MRI data for individualized image analysis. NeuroImage, 2014, 101, 168-176.	2.1	52
97	A Bayesian approach to the creation of a study-customized neonatal brain atlas. NeuroImage, 2014, 101, 256-267.	2.1	11
98	Knowledge-based automated reconstruction of human brain white matter tracts using a path-finding approach with dynamic programming. NeuroImage, 2014, 88, 271-281.	2.1	11
99	Improved Reproducibility of Neuroanatomical Definitions through Diffeomorphometry and Complexity Reduction. Lecture Notes in Computer Science, 2014, , 223-230.	1.0	2
100	Atlas-Based Neuroinformatics via MRI: Harnessing Information from Past Clinical Cases and Quantitative Image Analysis for Patient Care. Annual Review of Biomedical Engineering, 2013, 15, 71-92.	5.7	49
101	The diffeomorphometry of temporal lobe structures in preclinical Alzheimer's disease. NeuroImage: Clinical, 2013, 3, 352-360.	1.4	80
102	Structural-functional correlations between hippocampal volume and cortico-limbic emotional responses in depressed children. Cognitive, Affective and Behavioral Neuroscience, 2013, 13, 135-151.	1.0	31
103	Diffeomorphic brain mapping based on T1â€weighted images: Improvement of registration accuracy by multichannel mapping. Journal of Magnetic Resonance Imaging, 2013, 37, 76-84.	1.9	29
104	Robust Diffeomorphic Mapping via Geodesically Controlled Active Shapes. International Journal of Biomedical Imaging, 2013, 2013, 1-19.	3.0	18
105	Distinct abnormalities of the primate prefrontal cortex caused by ionizing radiation in early or midgestation. Journal of Comparative Neurology, 2013, 521, 1040-1053.	0.9	32
106	High-throughput neuro-imaging informatics. Frontiers in Neuroinformatics, 2013, 7, 31.	1.3	19
107	Computational analysis of LDDMM for brain mapping. Frontiers in Neuroscience, 2013, 7, 151.	1.4	36
108	Metric Space Structures for Computational Anatomy. Lecture Notes in Computer Science, 2013, , 123-130.	1.0	4

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109	Bayesian Parameter Estimation and Segmentation in the Multi-Atlas Random Orbit Model. PLoS ONE, 2013, 8, e65591.	1.1	150
110	Generating a human neonatal brain atlas for superior normalization accuracy. Proceedings of the International Society for Magnetic Resonance in Medicine ... Scientific Meeting and Exhibition., 2013, 2013, 3739.	0.5	0
111	Computational Medicine: Translating Models to Clinical Care. Science Translational Medicine, 2012, 4, 158rv11.	5.8	171
112	Effects of protocol and obesity on dose conversion factors in adult body CT. Medical Physics, 2012, 39, 6550-6571.	1.6	46
113	Metric Distances between Hippocampal Shapes Indicate Different Rates of Change over Time in Nondemented and Demented Subjects. Current Alzheimer Research, 2012, 9, 972-981.	0.7	3
114	Ontological labels for automated location of anatomical shape differences. Journal of Biomedical Informatics, 2012, 45, 522-527.	2.5	8
115	Spatiotemporal mapping of brain atrophy in mouse models of Huntington's disease using longitudinal in vivo magnetic resonance imaging. NeuroImage, 2012, 60, 2086-2095.	2.1	25
116	Atlas-based analysis of resting-state functional connectivity: Evaluation for reproducibility and multi-modal anatomyâ€“function correlation studies. NeuroImage, 2012, 61, 613-621.	2.1	132
117	Principal Component Based Diffeomorphic Surface Mapping. IEEE Transactions on Medical Imaging, 2012, 31, 302-311.	5.4	27
118	Amygdala Atrophy in MCI/Alzheimer's Disease in the BIOCARD cohort based on Diffeomorphic Morphometry. , 2012, 2012, 155-166.		8
119	Multi-contrast human neonatal brain atlas: Application to normal neonate development analysis. NeuroImage, 2011, 56, 8-20.	2.1	277
120	An MRI-based atlas and database of the developing mouse brain. NeuroImage, 2011, 54, 80-89.	2.1	147
121	Quantitative analysis of brain pathology based on MRI and brain atlasesâ€”Applications for cerebral palsy. NeuroImage, 2011, 54, 1854-1861.	2.1	65
122	Quantization and analysis of hippocampal morphometric changes due to dementia of Alzheimer type using metric distances based on large deformation diffeomorphic metric mapping. Computerized Medical Imaging and Graphics, 2011, 35, 275-293.	3.5	10
123	A framework on surface-based connectivity quantification for the human brain. Journal of Neuroscience Methods, 2011, 197, 324-332.	1.3	6
124	Diffuse Abnormality of Low to Moderately Organized White Matter in Schizophrenia. Brain Connectivity, 2011, 1, 511-519.	0.8	8
125	Image-based estimation of ventricular fiber orientations for patient-specific simulations. , 2011, 2011, 1672-5.		3
126	Patient Specific Dosimetry Phantoms Using Multichannel LDDMM of the Whole Body. International Journal of Biomedical Imaging, 2011, 2011, 1-9.	3.0	15

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127	Basal Ganglia Shapes Predict Social, Communication, and Motor Dysfunctions in Boys With Autism Spectrum Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 539-551e4.	0.3	10
128	Large deformation diffeomorphic metric mapping registration of reconstructed 3D histological section images and in vivo MR images. Frontiers in Human Neuroscience, 2010, 4, 43.	1.0	44
129	The new XCAT series of digital phantoms for multi-modality imaging. , 2010, , .		3
130	A Bayesian Generative Model for Surface Template Estimation. International Journal of Biomedical Imaging, 2010, 2010, 1-14.	3.0	61
131	Atlas-based analysis of neurodevelopment from infancy to adulthood using diffusion tensor imaging and applications for automated abnormality detection. NeuroImage, 2010, 52, 415-428.	2.1	152
132	Plasma ceramides are altered in mild cognitive impairment and predict cognitive decline and hippocampal volume loss. Alzheimer's and Dementia, 2010, 6, 378-385.	0.4	133
133	Longitudinal characterization of brain atrophy of a Huntington's disease mouse model by automated morphological analyses of magnetic resonance images. NeuroImage, 2010, 49, 2340-2351.	2.1	84
134	Basal Ganglia Shapes Predict Social, Communication, and Motor Dysfunctions in Boys With Autism Spectrum Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 539-551.e4.	0.3	103
135	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
136	Cardiac motion analysis in ischemic and non-ischemic cardiomyopathy using parallel transport. , 2009, , 899.		5
137	Anatomical Characterization of Human Fetal Brain Development with Diffusion Tensor Magnetic Resonance Imaging. Journal of Neuroscience, 2009, 29, 4263-4273.	1.7	308
138	Basal Ganglia Volume and Shape in Children With Attention Deficit Hyperactivity Disorder. American Journal of Psychiatry, 2009, 166, 74-82.	4.0	217
139	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
140	Fullyâ€automated, multiâ€stage hippocampus mapping in very mild Alzheimer disease. Hippocampus, 2009, 19, 541-548.	0.9	32
141	Computational Method for Identifying and Quantifying Shape Features of Human Left Ventricular Remodeling. Annals of Biomedical Engineering, 2009, 37, 1043-1054.	1.3	24
142	Diffusion Tensor Magnetic Resonance Imaging of Wallerian Degeneration in Rat Spinal Cord after Dorsal Root Axotomy. Journal of Neuroscience, 2009, 29, 3160-3171.	1.7	167
143	Landmark-referenced voxel-based analysis of diffusion tensor images of the brainstem white matter tracts. NeuroImage, 2009, 44, 906-913.	2.1	26
144	APOE related hippocampal shape alteration in geriatric depression. NeuroImage, 2009, 44, 620-626.	2.1	67

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145	Special Issue on Mathematics in Brain Imaging. NeuroImage, 2009, 45, S1-S2.	2.1	6
146	Time sequence diffeomorphic metric mapping and parallel transport track time-dependent shape changes. NeuroImage, 2009, 45, S51-S60.	2.1	48
147	The emerging discipline of Computational Functional Anatomy. NeuroImage, 2009, 45, S16-S39.	2.1	67
148	Evolutions equations in computational anatomy. NeuroImage, 2009, 45, S40-S50.	2.1	106
149	Atlas-based whole brain white matter analysis using large deformation diffeomorphic metric mapping: Application to normal elderly and Alzheimer's disease participants. NeuroImage, 2009, 46, 486-499.	2.1	456
150	Regional shape abnormalities in mild cognitive impairment and Alzheimer's disease. NeuroImage, 2009, 45, 656-661.	2.1	146
151	Multi-contrast large deformation diffeomorphic metric mapping for diffusion tensor imaging. NeuroImage, 2009, 47, 618-627.	2.1	179
152	Neuroanatomical asymmetry patterns in individuals with schizophrenia and their non-psychotic siblings. NeuroImage, 2009, 47, 1221-1229.	2.1	50
153	Correction of B0 susceptibility induced distortion in diffusion-weighted images using large-deformation diffeomorphic metric mapping. Magnetic Resonance Imaging, 2008, 26, 1294-1302.	1.0	93
154	Large Deformation Diffeomorphic Metric Curve Mapping. International Journal of Computer Vision, 2008, 80, 317-336.	10.9	175
155	Transport of Relational Structures in Groups of Diffeomorphisms. Journal of Mathematical Imaging and Vision, 2008, 32, 41-56.	0.8	44
156	Regionâ€ofâ€interestâ€based analysis with application of cortical thickness variation of left planum temporale in schizophrenia and psychotic bipolar disorder. Human Brain Mapping, 2008, 29, 973-985.	1.9	41
157	Semisupervised learning from dissimilarity data. Computational Statistics and Data Analysis, 2008, 52, 4643-4657.	0.7	18
158	Intrinsic and extrinsic analysis in computational anatomy. NeuroImage, 2008, 39, 1803-1814.	2.1	19
159	Parallel transport in diffeomorphisms distinguishes the time-dependent pattern of hippocampal surface deformation due to healthy aging and the dementia of the Alzheimer's type. NeuroImage, 2008, 40, 68-76.	2.1	84
160	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. NeuroImage, 2008, 40, 570-582.	2.1	1,528
161	Bayesian template estimation in computational anatomy. NeuroImage, 2008, 42, 252-261.	2.1	84
162	Multi-structure network shape analysis via normal surface momentum maps. NeuroImage, 2008, 42, 1430-1438.	2.1	92

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163	Statistical Analysis of Twin Populations using Dissimilarity Measurements in Hippocampus Shape Space. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-5.	3.0	4
164	Hippocampus Shape-Space Analysis of Clinically Depressed, High Risk, and Control Populations. , 2007, , .		0
165	Diffeomorphic metric surface mapping in subregion of the superior temporal gyrus. NeuroImage, 2007, 34, 1149-1159.	2.1	94
166	Combining anatomical manifold information via diffeomorphic metric mappings for studying cortical thinning of the cingulate gyrus in schizophrenia. NeuroImage, 2007, 37, 821-833.	2.1	45
167	Large Deformation Diffeomorphism and Momentum Based Hippocampal Shape Discrimination in Dementia of the Alzheimer type. IEEE Transactions on Medical Imaging, 2007, 26, 462-470.	5.4	136
168	Amygdala Volume Analysis in Female Twins with Major Depression. Biological Psychiatry, 2007, 62, 415-422.	0.7	61
169	High-resolution fMRI investigation of the medial temporal lobe. Human Brain Mapping, 2007, 28, 959-966.	1.9	110
170	Cortical Hemisphere Registration Via Large Deformation Diffeomorphic Metric Curve Mapping. , 2007, 10, 186-193.		21
171	Smooth functional and structural maps on the neocortex via orthonormal bases of the Laplace-Beltrami operator. IEEE Transactions on Medical Imaging, 2006, 25, 1296-1306.	5.4	124
172	Diffeomorphic Matching of Diffusion Tensor Images. , 2006, 2006, 67.		34
173	Abnormalities of hippocampal surface structure in very mild dementia of the Alzheimer type. NeuroImage, 2006, 30, 52-60.	2.1	158
174	Estimating linear cortical magnification in human primary visual cortex via dynamic programming. NeuroImage, 2006, 31, 125-138.	2.1	66
175	Geodesic Shooting for Computational Anatomy. Journal of Mathematical Imaging and Vision, 2006, 24, 209-228.	0.8	291
176	Characterization of Mouse Brain and Its Development using Diffusion Tensor Imaging and Computational Techniques. , 2006, 2006, 2252-5.		18
177	Evidence of Structural Remodeling in the Dyssynchronous Failing Heart. Circulation Research, 2006, 98, 125-132.	2.0	573
178	Measuring and Mapping Cardiac Fiber and Laminar Architecture Using Diffusion Tensor MR Imaging. Annals of the New York Academy of Sciences, 2005, 1047, 296-307.	1.8	216
179	Computing Large Deformation Metric Mappings via Geodesic Flows of Diffeomorphisms. International Journal of Computer Vision, 2005, 61, 139-157.	10.9	1,231
180	Increasing the power of functional maps of the medial temporal lobe by using large deformation diffeomorphic metric mapping. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9685-9690.	3.3	164

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181	Magnetic Resonance Diffusion Tensor Microimaging Reveals a Role for Bcl-x in Brain Development and Homeostasis. Journal of Neuroscience, 2005, 25, 1881-1888.	1.7	39
182	DTI tractography based parcellation of white matter: Application to the mid-sagittal morphology of corpus callosum. NeuroImage, 2005, 26, 195-205.	2.1	335
183	Mapping postnatal mouse brain development with diffusion tensor microimaging. NeuroImage, 2005, 26, 1042-1051.	2.1	81
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