

Torsten Rohlfing

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

8,404
citations

57758

44
h-index

71685

76
g-index

83
all docs

83
docs citations

83
times ranked

10614
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Maps of Drosophila Higher Olfactory Centers: Spatially Segregated Fruit and Pheromone Representation. <i>Cell</i> , 2007, 128, 1187-1203.	28.9	605
2	Evaluation of atlas selection strategies for atlas-based image segmentation with application to confocal microscopy images of bee brains. <i>NeuroImage</i> , 2004, 21, 1428-1442.	4.2	527
3	MRI estimates of brain iron concentration in normal aging using quantitative susceptibility mapping. <i>NeuroImage</i> , 2012, 59, 2625-2635.	4.2	427
4	Volume-preserving nonrigid registration of MR breast images using free-form deformation with an incompressibility constraint. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 730-741.	8.9	372
5	Image Similarity and Tissue Overlaps as Surrogates for Image Registration Accuracy: Widely Used but Unreliable. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 153-163.	8.9	325
6	Nonrigid image registration in shared-memory multiprocessor environments with application to brains, breasts, and bees. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2003, 7, 16-25.	3.2	318
7	The SRI24 multichannel atlas of normal adult human brain structure. <i>Human Brain Mapping</i> , 2010, 31, 798-819.	3.6	317
8	Quantitative fiber tracking of lateral and interhemispheric white matter systems in normal aging: Relations to timed performance. <i>Neurobiology of Aging</i> , 2010, 31, 464-481.	3.1	309
9	Modeling liver motion and deformation during the respiratory cycle using intensity-based nonrigid registration of gated MR images. <i>Medical Physics</i> , 2004, 31, 427-432.	3.0	239
10	Three-dimensional average-shape atlas of the honeybee brain and its applications. <i>Journal of Comparative Neurology</i> , 2005, 492, 1-19.	1.6	233
11	Problem solving, working memory, and motor correlates of association and commissural fiber bundles in normal aging: A quantitative fiber tracking study. <i>NeuroImage</i> , 2009, 44, 1050-1062.	4.2	231
12	The INIA19 Template and NeuroMaps Atlas for Primate Brain Image Parcellation and Spatial Normalization. <i>Frontiers in Neuroinformatics</i> , 2012, 6, 27.	2.5	223
13	Variation in longitudinal trajectories of regional brain volumes of healthy men and women (ages 10) Tj ETQq1 1 0.784314 rgBT /Overl 4.2 220	4.2	220
14	Performance-Based Classifier Combination in Atlas-Based Image Segmentation Using Expectation-Maximization Parameter Estimation. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 983-994.	8.9	215
15	Degradation of Association and Projection White Matter Systems in Alcoholism Detected with Quantitative Fiber Tracking. <i>Biological Psychiatry</i> , 2009, 65, 680-690.	1.3	200
16	Brain Development in Heavy-Drinking Adolescents. <i>American Journal of Psychiatry</i> , 2015, 172, 531-542.	7.2	189
17	Image Similarity Using Mutual Information of Regions. <i>Lecture Notes in Computer Science</i> , 2004, , 596-607.	1.3	168
18	Diffusion tensor imaging of deep gray matter brain structures: Effects of age and iron concentration. <i>Neurobiology of Aging</i> , 2010, 31, 482-493.	3.1	165

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19	MRI estimates of brain iron concentration in normal aging: Comparison of field-dependent (FDR) and phase (SWI) methods. <i>NeuroImage</i> , 2009, 47, 493-500.	4.2	149
20	Longitudinal Study of Callosal Microstructure in the Normal Adult Aging Brain Using Quantitative DTI Fiber Tracking. <i>Developmental Neuropsychology</i> , 2010, 35, 233-256.	1.4	140
21	The natverse, a versatile toolbox for combining and analysing neuroanatomical data. <i>ELife</i> , 2020, 9, .	6.0	139
22	Quo Vadis, Atlas-Based Segmentation?. , 2005, , 435-486.		123
23	Standardized atlas of the brain of the desert locust, <i>Schistocerca gregaria</i> . <i>Cell and Tissue Research</i> , 2008, 333, 125-145.	2.9	115
24	Accelerated aging of selective brain structures in human immunodeficiency virus infection: a controlled, longitudinal magnetic resonance imaging study. <i>Neurobiology of Aging</i> , 2014, 35, 1755-1768.	3.1	103
25	Postural sway reduction in aging men and women: Relation to brain structure, cognitive status, and stabilizing factors. <i>Neurobiology of Aging</i> , 2009, 30, 793-807.	3.1	99
26	Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions. <i>Cerebral Cortex</i> , 2011, 21, 233-244.	2.9	99
27	White matter microstructural recovery with abstinence and decline with relapse in alcohol dependence interacts with normal ageing: a controlled longitudinal DTI study. <i>Lancet Psychiatry</i> , the, 2014, 1, 202-212.	7.4	91
28	Shape-Based Averaging. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 153-161.	9.8	88
29	Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. <i>NeuroImage</i> , 2016, 130, 194-213.	4.2	85
30	Regional Brain Structural Dymorphology in Human Immunodeficiency Virus Infection: Effects of Acquired Immune Deficiency Syndrome, Alcoholism, and Age. <i>Biological Psychiatry</i> , 2012, 72, 361-370.	1.3	80
31	Retrospective digital image fusion of multidetector CT and 18F-FDG PET: clinical value in pancreatic lesions--a prospective study with 104 patients. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1279-86.	5.0	79
32	Brain Injury and Recovery Following Binge Ethanol: Evidence from In Vivo Magnetic Resonance Spectroscopy. <i>Biological Psychiatry</i> , 2010, 67, 846-854.	1.3	76
33	A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men. <i>Biological Psychiatry</i> , 2013, 74, 547-555.	1.3	76
34	Contribution of alcoholism to brain dymorphology in HIV infection: Effects on the ventricles and corpus callosum. <i>NeuroImage</i> , 2006, 33, 239-251.	4.2	69
35	InÂvivo glutamate measured with magnetic resonance spectroscopy: behavioral correlates in aging. <i>Neurobiology of Aging</i> , 2013, 34, 1265-1276.	3.1	69
36	Multi-classifier framework for atlas-based image segmentation. <i>Pattern Recognition Letters</i> , 2005, 26, 2070-2079.	4.2	68

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37	Relevance of Iron Deposition in Deep Gray Matter Brain Structures to Cognitive and Motor Performance in Healthy Elderly Men and Women: Exploratory Findings. <i>Brain Imaging and Behavior</i> , 2009, 3, 167-175.	2.1	67
38	Dual Tasking and Working Memory in Alcoholism: Relation to Frontocerebellar Circuitry. <i>Neuropsychopharmacology</i> , 2010, 35, 1868-1878.	5.4	65
39	Monkeys that Voluntarily and Chronically Drink Alcohol Damage their Brains: a Longitudinal MRI Study. <i>Neuropsychopharmacology</i> , 2014, 39, 823-830.	5.4	63
40	Volumetric cerebral perfusion imaging in healthy adults: Regional distribution, laterality, and repeatability of pulsed continuous arterial spin labeling (PCASL). <i>Psychiatry Research - Neuroimaging</i> , 2010, 182, 266-273.	1.8	61
41	Improvement in memory and static balance with abstinence in alcoholic men and women: Selective relations with change in brain structure. <i>Psychiatry Research - Neuroimaging</i> , 2007, 155, 91-102.	1.8	57
42	Developmental change in regional brain structure over 7 months in early adolescence: Comparison of approaches for longitudinal atlas-based parcellation. <i>NeuroImage</i> , 2011, 57, 214-224.	4.2	57
43	Imaging Neuroinflammation? A Perspective from ^1H MR Spectroscopy. <i>Brain Pathology</i> , 2014, 24, 654-664.	4.1	57
44	Cognitive, emotion control, and motor performance of adolescents in the NCANDA study: Contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction. <i>Neuropsychology</i> , 2016, 30, 449-473.	1.3	56
45	Fiber tracking functionally distinct components of the internal capsule. <i>Neuropsychologia</i> , 2010, 48, 4155-4163.	1.6	53
46	Pontocerebellar contribution to postural instability and psychomotor slowing in HIV infection without dementia. <i>Brain Imaging and Behavior</i> , 2011, 5, 12-24.	2.1	47
47	Pontocerebellar volume deficits and ataxia in alcoholic men and women: no evidence for œtelescoping. <i>Psychopharmacology</i> , 2010, 208, 279-290.	3.1	42
48	White Matter Fiber Degradation Attenuates Hemispheric Asymmetry When Integrating Visuomotor Information. <i>Journal of Neuroscience</i> , 2010, 30, 12168-12178.	3.6	42
49	Combining atlas-based parcellation of regional brain data acquired across scanners at 1.5T and 3.0T field strengths. <i>NeuroImage</i> , 2012, 60, 940-951.	4.2	42
50	Progressive attenuation fields: Fast 2D-3D image registration without precomputation. <i>Medical Physics</i> , 2005, 32, 2870-2880.	3.0	41
51	Visual search and the aging brain: Discerning the effects of age-related brain volume shrinkage on alertness, feature binding, and attentional control. <i>Neuropsychology</i> , 2013, 27, 48-59.	1.3	41
52	Chronic alcohol consumption and its effect on nodes of frontocerebellar and limbic circuitry: Comparison of effects in France and the United States. <i>Human Brain Mapping</i> , 2014, 35, 4635-4653.	3.6	40
53	Simultaneous Quantification of Perfusion and Permeability in the Prostate Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging with an Inversion-Prepared Dual-Contrast Sequence. <i>Annals of Biomedical Engineering</i> , 2009, 37, 749-762.	2.5	39
54	Registration of Functional and Anatomical MRI: Accuracy Assessment and Application in Navigated Neurosurgery. <i>Computer Aided Surgery</i> , 2000, 5, 414-425.	1.8	38

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55	A Mechanism of Rapidly Reversible Cerebral Ventricular Enlargement Independent of Tissue Atrophy. <i>Neuropsychopharmacology</i> , 2013, 38, 1121-1129.	5.4	37
56	Deformation-based brain morphometry to track the course of alcoholism: Differences between intra-subject and inter-subject analysis. <i>Psychiatry Research - Neuroimaging</i> , 2006, 146, 157-170.	1.8	34
57	Effect of Changing Patient Position from Supine to Prone on the Accuracy of a Brown-Roberts-Wells Stereotactic Head Frame System. <i>Neurosurgery</i> , 2003, 52, 610-618.	1.1	33
58	Intensity-Based Non-rigid Registration Using Adaptive Multilevel Free-Form Deformation with an Incompressibility Constraint. <i>Lecture Notes in Computer Science</i> , 2001, , 111-119.	1.3	33
59	Intensity-based 2D-3D spine image registration incorporating a single fiducial marker1. <i>Academic Radiology</i> , 2005, 12, 37-50.	2.5	32
60	Ventricular Expansion in Wild-Type Wistar Rats After Alcohol Exposure by Vapor Chamber. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1459-1467.	2.4	25
61	N-CANDA data integration: anatomy of an asynchronous infrastructure for multi-site, multi-instrument longitudinal data capture. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, 758-762.	4.4	25
62	Associations between in vivo neuroimaging and postmortem brain cytokine markers in a rodent model of Wernicke's encephalopathy. <i>Experimental Neurology</i> , 2014, 261, 109-119.	4.1	23
63	Registration of functional and anatomical MRI: Accuracy assessment and application in navigated neurosurgery. <i>Computer Aided Surgery</i> , 2000, 5, 414-425.	1.8	23
64	In vivo glutamate decline associated with kainic acid-induced status epilepticus. <i>Brain Research</i> , 2009, 1300, 65-78.	2.2	20
65	Transient CNS responses to repeated binge ethanol treatment. <i>Addiction Biology</i> , 2016, 21, 1199-1216.	2.6	20
66	Transformation Model and Constraints Cause Bias in Statistics on Deformation Fields. <i>Lecture Notes in Computer Science</i> , 2006, 9, 207-214.	1.3	20
67	The SRI24 multichannel brain atlas: construction and applications. , 2008, 6914, 691409.		16
68	Dynamic Responses of Selective Brain White Matter Fiber Tracts to Binge Alcohol and Recovery in the Rat. <i>PLoS ONE</i> , 2015, 10, e0124885.	2.5	15
69	Subject-Matched Templates for Spatial Normalization. <i>Lecture Notes in Computer Science</i> , 2009, 12, 224-231.	1.3	11
70	Concomitants of alcoholism: differential effects of thiamine deficiency, liver damage, and food deprivation on the rat brain in vivo. <i>Psychopharmacology</i> , 2016, 233, 2675-2686.	3.1	10
71	Quantitative computer-aided computed tomography analysis of sphenoid sinus anatomical relationships. <i>American Journal of Rhinology & Allergy</i> , 2004, 18, 173-8.	2.2	10
72	Cognitive demands during quiet standing elicit truncal tremor in two frequency bands: differential relations to tissue integrity of corticospinal tracts and cortical targets. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 175.	2.0	9

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73	Sensitive biomarkers of alcoholism's effect on brain macrostructure: similarities and differences between France and the United States. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 354.	2.0	9
74	Regression Models of Atlas Appearance. <i>Lecture Notes in Computer Science</i> , 2009, 21, 151-162.	1.3	7
75	An Alternating-Constraints Algorithm for Volume-Preserving Non-rigid Registration of Contrast-Enhanced MR Breast Images. <i>Lecture Notes in Computer Science</i> , 2003, , 291-300.	1.3	5
76	Volume Reconstruction by Inverse Interpolation: Application to Interleaved MR Motion Correction. <i>Lecture Notes in Computer Science</i> , 2008, 11, 798-806.	1.3	4
77	Unwarping confocal microscopy images of bee brains by nonrigid registration to a magnetic resonance microscopy image. <i>Journal of Biomedical Optics</i> , 2005, 10, 024018.	2.6	3
78	Divergence-Based Framework for Diffusion Tensor Clustering, Interpolation, and Regularization. , 2007, 20, 507-518.		3
79	“Nonparametric Local Smoothing” is not image registration. <i>BMC Research Notes</i> , 2012, 5, 610.	1.4	2
80	<title>Efficient voxel lookup in nonuniformly spaced images using virtual uniform axes</title>. , 2001, 4322, 986.		0