Torsten Rohlfing

List of Publications by Year in descending order

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TOPSTEN POHLEINC

#	Article	IF	CITATIONS
1	The natverse, a versatile toolbox for combining and analysing neuroanatomical data. ELife, 2020, 9, .	6.0	139
2	Transient CNS responses to repeated binge ethanol treatment. Addiction Biology, 2016, 21, 1199-1216.	2.6	20
3	Cognitive, emotion control, and motor performance of adolescents in the NCANDA study: Contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction Neuropsychology, 2016, 30, 449-473.	1.3	56
4	Concomitants of alcoholism: differential effects of thiamine deficiency, liver damage, and food deprivation on the rat brain in vivo. Psychopharmacology, 2016, 233, 2675-2686.	3.1	10
5	Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. NeuroImage, 2016, 130, 194-213.	4.2	85
6	Cognitive demands during quiet standing elicit truncal tremor in two frequency bands: differential relations to tissue integrity of corticospinal tracts and cortical targets. Frontiers in Human Neuroscience, 2015, 9, 175.	2.0	9
7	Sensitive biomarkers of alcoholism's effect on brain macrostructure: similarities and differences between France and the United States. Frontiers in Human Neuroscience, 2015, 9, 354.	2.0	9
8	Dynamic Responses of Selective Brain White Matter Fiber Tracts to Binge Alcohol and Recovery in the Rat. PLoS ONE, 2015, 10, e0124885.	2.5	15
9	Brain Development in Heavy-Drinking Adolescents. American Journal of Psychiatry, 2015, 172, 531-542.	7.2	189
10	Imaging Neuroinflammation? A Perspective from <scp>MR</scp> Spectroscopy. Brain Pathology, 2014, 24, 654-664.	4.1	57
11	N-CANDA data integration: anatomy of an asynchronous infrastructure for multi-site, multi-instrument longitudinal data capture. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 758-762.	4.4	25
12	Chronic alcohol consumption and its effect on nodes of frontocerebellar and limbic circuitry: Comparison of effects in France and the United States. Human Brain Mapping, 2014, 35, 4635-4653.	3.6	40
13	Accelerated aging of selective brain structures in human immunodeficiency virus infection: a controlled, longitudinal magnetic resonance imaging study. Neurobiology of Aging, 2014, 35, 1755-1768.	3.1	103
14	Monkeys that Voluntarily and Chronically Drink Alcohol Damage their Brains: a Longitudinal MRI Study. Neuropsychopharmacology, 2014, 39, 823-830.	5.4	63
15	Associations between in vivo neuroimaging and postmortem brain cytokine markers in a rodent model of Wernicke's encephalopathy. Experimental Neurology, 2014, 261, 109-119.	4.1	23
16	White matter microstructural recovery with abstinence and decline with relapse in alcohol dependence interacts with normal ageing: a controlled longitudinal DTI study. Lancet Psychiatry,the, 2014, 1, 202-212.	7.4	91
17	A Mechanism of Rapidly Reversible Cerebral Ventricular Enlargement Independent of Tissue Atrophy. Neuropsychopharmacology, 2013, 38, 1121-1129.	5.4	37
18	InÂvivo glutamate measured with magnetic resonance spectroscopy: behavioral correlates in aging. Neurobiology of Aging, 2013, 34, 1265-1276.	3.1	69

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19	A Selective Insular Perfusion Deficit Contributes to Compromised Salience Network Connectivity in Recovering Alcoholic Men. Biological Psychiatry, 2013, 74, 547-555.	1.3	76
20	Variation in longitudinal trajectories of regional brain volumes of healthy men and women (ages 10) Tj ETQq0 0 (Ο rgBT /Ον	erlock 10 Tf 5
21	Visual search and the aging brain: Discerning the effects of age-related brain volume shrinkage on alertness, feature binding, and attentional control Neuropsychology, 2013, 27, 48-59.	1.3	41
22	Regional Brain Structural Dysmorphology in Human Immunodeficiency Virus Infection: Effects of Acquired Immune Deficiency Syndrome, Alcoholism, and Age. Biological Psychiatry, 2012, 72, 361-370.	1.3	80
23	MRI estimates of brain iron concentration in normal aging using quantitative susceptibility mapping. NeuroImage, 2012, 59, 2625-2635.	4.2	427
24	Combining atlas-based parcellation of regional brain data acquired across scanners at 1.5T and 3.0T field strengths. NeuroImage, 2012, 60, 940-951.	4.2	42
25	"Nonparametric Local Smoothing―is not image registration. BMC Research Notes, 2012, 5, 610.	1.4	2
26	The INIA19 Template and NeuroMaps Atlas for Primate Brain Image Parcellation and Spatial Normalization. Frontiers in Neuroinformatics, 2012, 6, 27.	2.5	223
27	Image Similarity and Tissue Overlaps as Surrogates for Image Registration Accuracy: Widely Used but Unreliable. IEEE Transactions on Medical Imaging, 2012, 31, 153-163.	8.9	325
28	Developmental change in regional brain structure over 7 months in early adolescence: Comparison of approaches for longitudinal atlas-based parcellation. NeuroImage, 2011, 57, 214-224.	4.2	57
29	Pontocerebellar contribution to postural instability and psychomotor slowing in HIV infection without dementia. Brain Imaging and Behavior, 2011, 5, 12-24.	2.1	47
30	Cerebral Blood Flow in Posterior Cortical Nodes of the Default Mode Network Decreases with Task Engagement but Remains Higher than in Most Brain Regions. Cerebral Cortex, 2011, 21, 233-244.	2.9	99
31	The SRI24 multichannel atlas of normal adult human brain structure. Human Brain Mapping, 2010, 31, 798-819.	3.6	317
32	Pontocerebellar volume deficits and ataxia in alcoholic men and women: no evidence for "telescoping― Psychopharmacology, 2010, 208, 279-290.	3.1	42
33	Fiber tracking functionally distinct components of the internal capsule. Neuropsychologia, 2010, 48, 4155-4163.	1.6	53

34	Volumetric cerebral perfusion imaging in healthy adults: Regional distribution, laterality, and repeatability of pulsed continuous arterial spin labeling (PCASL). Psychiatry Research - Neuroimaging, 2010, 182, 266-273.	1.8	61
35	White Matter Fiber Degradation Attenuates Hemispheric Asymmetry When Integrating Visuomotor Information. Journal of Neuroscience, 2010, 30, 12168-12178.	3.6	42

36Dual Tasking and Working Memory in Alcoholism: Relation to Frontocerebellar Circuitry.5.436Neuropsychopharmacology, 2010, 35, 1868-1878.5.4

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37	Brain Injury and Recovery Following Binge Ethanol: Evidence from In Vivo Magnetic Resonance Spectroscopy. Biological Psychiatry, 2010, 67, 846-854.	1.3	76
38	Quantitative fiber tracking of lateral and interhemispheric white matter systems in normal aging: Relations to timed performance. Neurobiology of Aging, 2010, 31, 464-481.	3.1	309
39	Diffusion tensor imaging of deep gray matter brain structures: Effects of age and iron concentration. Neurobiology of Aging, 2010, 31, 482-493.	3.1	165
40	Longitudinal Study of Callosal Microstructure in the Normal Adult Aging Brain Using Quantitative DTI Fiber Tracking. Developmental Neuropsychology, 2010, 35, 233-256.	1.4	140
41	In vivo glutamate decline associated with kainic acid-induced status epilepticus. Brain Research, 2009, 1300, 65-78.	2.2	20
42	Simultaneous Quantification of Perfusion and Permeability in the Prostate Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging with an Inversion-Prepared Dual-Contrast Sequence. Annals of Biomedical Engineering, 2009, 37, 749-762.	2.5	39
43	Relevance of Iron Deposition in Deep Gray Matter Brain Structures to Cognitive and Motor Performance in Healthy Elderly Men and Women: Exploratory Findings. Brain Imaging and Behavior, 2009, 3, 167-175.	2.1	67
44	Postural sway reduction in aging men and women: Relation to brain structure, cognitive status, and stabilizing factors. Neurobiology of Aging, 2009, 30, 793-807.	3.1	99
45	Degradation of Association and Projection White Matter Systems in Alcoholism Detected with Quantitative Fiber Tracking. Biological Psychiatry, 2009, 65, 680-690.	1.3	200
46	Problem solving, working memory, and motor correlates of association and commissural fiber bundles in normal aging: A quantitative fiber tracking study. NeuroImage, 2009, 44, 1050-1062.	4.2	231
47	MRI estimates of brain iron concentration in normal aging: Comparison of field-dependent (FDRI) and phase (SWI) methods. NeuroImage, 2009, 47, 493-500.	4.2	149
48	Regression Models of Atlas Appearance. Lecture Notes in Computer Science, 2009, 21, 151-162.	1.3	7
49	Subject-Matched Templates for Spatial Normalization. Lecture Notes in Computer Science, 2009, 12, 224-231.	1.3	11
50	Standardized atlas of the brain of the desert locust, Schistocerca gregaria. Cell and Tissue Research, 2008, 333, 125-145.	2.9	115
51	Ventricular Expansion in Wildâ€Type Wistar Rats After Alcohol Exposure by Vapor Chamber. Alcoholism: Clinical and Experimental Research, 2008, 32, 1459-1467.	2.4	25
52	The SRI24 multichannel brain atlas: construction and applications. , 2008, 6914, 691409.		16
53	Volume Reconstruction by Inverse Interpolation: Application to Interleaved MR Motion Correction. Lecture Notes in Computer Science, 2008, 11, 798-806.	1.3	4
54	Comprehensive Maps of Drosophila Higher Olfactory Centers: Spatially Segregated Fruit and Pheromone Representation. Cell, 2007, 128, 1187-1203.	28.9	605

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55	Shape-Based Averaging. IEEE Transactions on Image Processing, 2007, 16, 153-161.	9.8	88
56	Improvement in memory and static balance with abstinence in alcoholic men and women: Selective relations with change in brain structure. Psychiatry Research - Neuroimaging, 2007, 155, 91-102.	1.8	57
57	Divergence-Based Framework for Diffusion Tensor Clustering, Interpolation, and Regularization. , 2007, 20, 507-518.		3
58	Contribution of alcoholism to brain dysmorphology in HIV infection: Effects on the ventricles and corpus callosum. NeuroImage, 2006, 33, 239-251.	4.2	69
59	Deformation-based brain morphometry to track the course of alcoholism: Differences between intra-subject and inter-subject analysis. Psychiatry Research - Neuroimaging, 2006, 146, 157-170.	1.8	34
60	Transformation Model and Constraints Cause Bias in Statistics on Deformation Fields. Lecture Notes in Computer Science, 2006, 9, 207-214.	1.3	20
61	Multi-classifier framework for atlas-based image segmentation. Pattern Recognition Letters, 2005, 26, 2070-2079.	4.2	68
62	Three-dimensional average-shape atlas of the honeybee brain and its applications. Journal of Comparative Neurology, 2005, 492, 1-19.	1.6	233
63	Quo Vadis, Atlas-Based Segmentation?. , 2005, , 435-486.		123
64	Unwarping confocal microscopy images of bee brains by nonrigid registration to a magnetic resonance microscopy image. Journal of Biomedical Optics, 2005, 10, 024018.	2.6	3
65	Progressive attenuation fields: Fast 2D-3D image registration without precomputation. Medical Physics, 2005, 32, 2870-2880.	3.0	41
66	Intensity-based 2D-3D spine image registration incorporating a single fiducial marker1. Academic Radiology, 2005, 12, 37-50.	2.5	32
67	Modeling liver motion and deformation during the respiratory cycle using intensity-based nonrigid registration of gated MR images. Medical Physics, 2004, 31, 427-432.	3.0	239
68	Image Similarity Using Mutual Information of Regions. Lecture Notes in Computer Science, 2004, , 596-607.	1.3	168
69	Performance-Based Classifier Combination in Atlas-Based Image Segmentation Using Expectation-Maximization Parameter Estimation. IEEE Transactions on Medical Imaging, 2004, 23, 983-994.	8.9	215
70	Evaluation of atlas selection strategies for atlas-based image segmentation with application to confocal microscopy images of bee brains. NeuroImage, 2004, 21, 1428-1442.	4.2	527
71	Quantitative computer-aided computed tomography analysis of sphenoid sinus anatomical relationships. American Journal of Rhinology & Allergy, 2004, 18, 173-8.	2.2	10
72	Retrospective digital image fusion of multidetector CT and 18F-FDG PET: clinical value in pancreatic lesionsa prospective study with 104 patients. Journal of Nuclear Medicine, 2004, 45, 1279-86.	5.0	79

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#	Article	IF	CITATIONS
73	Nonrigid image registration in shared-memory multiprocessor environments with application to brains, breasts, and bees. IEEE Transactions on Information Technology in Biomedicine, 2003, 7, 16-25.	3.2	318
74	Volume-preserving nonrigid registration of MR breast images using free-form deformation with an incompressibility constraint. IEEE Transactions on Medical Imaging, 2003, 22, 730-741.	8.9	372
75	Effect of Changing Patient Position from Supine to Prone on the Accuracy of a Brown-Roberts-Wells Stereotactic Head Frame System. Neurosurgery, 2003, 52, 610-618.	1.1	33
76	An Alternating-Constraints Algorithm for Volume-Preserving Non-rigid Registration of Contrast-Enhanced MR Breast Images. Lecture Notes in Computer Science, 2003, , 291-300.	1.3	5
77	<title>Efficient voxel lookup in nonuniformly spaced images using virtual uniform axes</title> . , 2001, 4322, 986.		0
78	Intensity-Based Non-rigid Registration Using Adaptive Multilevel Free-Form Deformation with an Incompressibility Constraint. Lecture Notes in Computer Science, 2001, , 111-119.	1.3	33
79	Registration of Functional and Anatomical MRI: Accuracy Assessment and Application in Navigated Neurosurgery. Computer Aided Surgery, 2000, 5, 414-425.	1.8	38
80	Registration of functional and anatomical MRI: Accuracy assessment and application in navigated neurosurgery. Computer Aided Surgery, 2000, 5, 414-425.	1.8	23