

William R Crum

List of Publications by Year in descending order

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62
papers

4,378
citations

147801

31
h-index

168389

53
g-index

66
all docs

66
docs citations

66
times ranked

6794
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroanatomical and Microglial Alterations in the Striatum of Levodopa-Treated, Dyskinetic Hemi-Parkinsonian Rats. <i>Frontiers in Neuroscience</i> , 2020, 14, 567222.	2.8	10
2	Test-retest reliability and longitudinal analysis of automated hippocampal subregion volumes in healthy ageing and Alzheimer's disease populations. <i>Human Brain Mapping</i> , 2018, 39, 1743-1754.	3.6	45
3	Evolution of structural abnormalities in the rat brain following in utero exposure to maternal immune activation: A longitudinal in vivo MRI study. <i>Brain, Behavior, and Immunity</i> , 2017, 63, 50-59.	4.1	64
4	Diamagnetic chemical exchange saturation transfer (diaCEST) affords magnetic resonance imaging of extracellular matrix hydrogel implantation in a rat model of stroke. <i>Biomaterials</i> , 2017, 113, 176-190.	11.4	29
5	Correlations of Behavioral Deficits with Brain Pathology Assessed through Longitudinal MRI and Histopathology in the HdhQ150/Q150 Mouse Model of Huntington's Disease. <i>PLoS ONE</i> , 2017, 12, e0168556.	2.5	17
6	Magnetic resonance imaging and tensor-based morphometry in the MPTP non-human primate model of Parkinson's disease. <i>PLoS ONE</i> , 2017, 12, e0180733.	2.5	9
7	Changes in Neurocognitive Architecture in Patients with Obstructive Sleep Apnea Treated with Continuous Positive Airway Pressure. <i>EBioMedicine</i> , 2016, 7, 221-229.	6.1	68
8	Simultaneous effects on parvalbumin-positive interneuron and dopaminergic system development in a transgenic rat model for sporadic schizophrenia. <i>Scientific Reports</i> , 2016, 6, 34946.	3.3	27
9	Dissociation between iron accumulation and ferritin upregulation in the aged substantia nigra: attenuation by dietary restriction. <i>Aging</i> , 2016, 8, 2488-2508.	3.1	43
10	Neurorestoration induced by the HDAC inhibitor sodium valproate in the lactacystin model of Parkinson's is associated with histone acetylation and upregulation of neurotrophic factors. <i>British Journal of Pharmacology</i> , 2015, 172, 4200-4215.	5.4	46
11	Bringing memory fMRI to the clinic: Comparison of seven memory fMRI protocols in temporal lobe epilepsy. <i>Human Brain Mapping</i> , 2015, 36, 1595-1608.	3.6	22
12	Reduced Cortical Volume and Elevated Astrocyte Density in Rats Chronically Treated With Antipsychotic Drugs—Linking Magnetic Resonance Imaging Findings to Cellular Pathology. <i>Biological Psychiatry</i> , 2014, 75, 982-990.	1.3	85
13	A comparison of automated anatomical-behavioural mapping methods in a rodent model of stroke. <i>Journal of Neuroscience Methods</i> , 2013, 218, 170-183.	2.5	17
14	3D reconstruction of 2D fluorescence histology images and registration with in vivo MR images: Application in a rodent stroke model. <i>Journal of Neuroscience Methods</i> , 2013, 219, 27-40.	2.5	35
15	Registration of challenging pre-clinical brain images. <i>Journal of Neuroscience Methods</i> , 2013, 216, 62-77.	2.5	16
16	Hippocampal Hypertrophy and Sleep Apnea: A Role for the Ischemic Preconditioning?. <i>PLoS ONE</i> , 2013, 8, e83173.	2.5	53
17	Correlations of Behavioral Deficits with Brain Pathology Assessed through Longitudinal MRI and Histopathology in the R6/1 Mouse Model of Huntington's Disease. <i>PLoS ONE</i> , 2013, 8, e84726.	2.5	39
18	Contrasting Effects of Haloperidol and Lithium on Rodent Brain Structure: A Magnetic Resonance Imaging Study with Postmortem Confirmation. <i>Biological Psychiatry</i> , 2012, 71, 855-863.	1.3	113

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19	Reply to: Lithium and the Expanding Brain. <i>Biological Psychiatry</i> , 2012, 72, e19.	1.3	0
20	Implantation Site and Lesion Topology Determine Efficacy of a Human Neural Stem Cell Line in a Rat Model of Chronic Stroke. <i>Stem Cells</i> , 2012, 30, 785-796.	3.2	135
21	Segmentation of the thalamus in MRI based on T1 and T2. <i>NeuroImage</i> , 2011, 56, 939-950.	4.2	48
22	A comprehensive testing protocol for MRI neuroanatomical segmentation techniques: Evaluation of a novel lateral ventricle segmentation method. <i>NeuroImage</i> , 2011, 58, 1051-1059.	4.2	102
23	Magnetic Resonance Brain Image Processing and Arithmetic with FSL. <i>Methods in Molecular Biology</i> , 2011, 711, 109-126.	0.9	2
24	Evolution of Extra-Nigral Damage Predicts Behavioural Deficits in a Rat Proteasome Inhibitor Model of Parkinson's Disease. <i>PLoS ONE</i> , 2011, 6, e17269.	2.5	44
25	Reproducibility of thalamic segmentation based on probabilistic tractography. <i>NeuroImage</i> , 2010, 52, 69-85.	4.2	77
26	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. <i>NeuroImage</i> , 2009, 47, 1435-1447.	4.2	180
27	Consistency of parametric registration in serial MRI studies of brain tumor progression. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008, 3, 201-211.	2.8	15
28	Mitochondrial displacements in response to nanomechanical forces. <i>Journal of Molecular Recognition</i> , 2008, 21, 30-36.	2.1	35
29	Performance characterization in computer vision: A guide to best practices. <i>Computer Vision and Image Understanding</i> , 2008, 109, 305-334.	4.7	53
30	Accuracy assessment of global and local atrophy measurement techniques with realistic simulated longitudinal Alzheimer's disease images. <i>NeuroImage</i> , 2008, 42, 696-709.	4.2	32
31	Tracking displacements of intracellular organelles in response to nanomechanical forces. , 2008, , .		5
32	Fusion of rat brain histology and MRI using weighted multi-image mutual information. , 2008, , .		2
33	Comparison and Evaluation of Segmentation Techniques for Subcortical Structures in Brain MRI. <i>Lecture Notes in Computer Science</i> , 2008, 11, 409-416.	1.3	40
34	Spectral Clustering as a Diagnostic Tool in Cross-Sectional MR Studies: An Application to Mild Dementia. <i>Lecture Notes in Computer Science</i> , 2008, 11, 442-449.	1.3	1
35	Correlations Between Apolipoprotein E ϵ 4 Gene Dose and Whole Brain Atrophy Rates. <i>American Journal of Psychiatry</i> , 2007, 164, 916-921.	7.2	104
36	A New Validation Method for X-ray Mammogram Registration Algorithms Using a Projection Model of Breast X-ray Compression. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1190-1200.	8.9	34

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37	Modelling Tumour Growth Patterns with Non-Rigid Image Registration. , 2007, , 139-144.		3
38	Methods for Inverting Dense Displacement Fields: Evaluation in Brain Image Registration. , 2007, 10, 900-907.		16
39	Accuracy Assessment of Global and Local Atrophy Measurement Techniques with Realistic Simulated Longitudinal Data. , 2007, 10, 785-792.		5
40	Phenomenological Model of Diffuse Global and Regional Atrophy Using Finite-Element Methods. IEEE Transactions on Medical Imaging, 2006, 25, 1417-1430.	8.9	32
41	Generalized Overlap Measures for Evaluation and Validation in Medical Image Analysis. IEEE Transactions on Medical Imaging, 2006, 25, 1451-1461.	8.9	583
42	X-Ray Mammogram Registration: A Novel Validation Method. Lecture Notes in Computer Science, 2006, , 197-204.	1.3	7
43	Simulation of Local and Global Atrophy in Alzheimer's Disease Studies. Lecture Notes in Computer Science, 2006, 9, 937-945.	1.3	4
44	Generalised Overlap Measures for Assessment of Pairwise and Groupwise Image Registration and Segmentation. Lecture Notes in Computer Science, 2005, 8, 99-106.	1.3	26
45	An Inverse Problem Approach to the Estimation of Volume Change. Lecture Notes in Computer Science, 2005, 8, 616-623.	1.3	4
46	Free-breathing radial acquisitions of the heart. Magnetic Resonance in Medicine, 2004, 52, 1127-1135.	3.0	20
47	An automated algorithm for the computation of brain volume change from sequential MRIs using an iterative principal component analysis and its evaluation for the assessment of whole-brain atrophy rates in patients with probable Alzheimer's disease. NeuroImage, 2004, 22, 134-143.	4.2	48
48	A Framework for Detailed Objective Comparison of Non-rigid Registration Algorithms in Neuroimaging. Lecture Notes in Computer Science, 2004, , 679-686.	1.3	25
49	Biomechanical simulation of atrophy in MR images. , 2003, , .		5
50	Zen and the art of medical image registration: correspondence, homology, and quality. NeuroImage, 2003, 20, 1425-1437.	4.2	159
51	Information Theoretic Similarity Measures in Non-rigid Registration. Lecture Notes in Computer Science, 2003, 18, 378-387.	1.3	21
52	Progressive ventricular enlargement in patients with clinically isolated syndromes is associated with the early development of multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2002, 73, 141-147.	1.9	138
53	Automatic Differentiation of Anatomical Patterns in the Human Brain: Validation with Studies of Degenerative Dementias. NeuroImage, 2002, 17, 29-46.	4.2	399
54	Patterns of cerebral atrophy in Alzheimer's disease and semantic dementia: A comparison of voxel based morphometry and region of interest measurements. NeuroImage, 2001, 13, 317.	4.2	0

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55	Automated Hippocampal Segmentation by Regional Fluid Registration of Serial MRI: Validation and Application in Alzheimer's Disease. <i>NeuroImage</i> , 2001, 13, 847-855.	4.2	124
56	Imaging of onset and progression of Alzheimer's disease with voxel-compression mapping of serial magnetic resonance images. <i>Lancet, The</i> , 2001, 358, 201-205.	13.7	414
57	Patterns of temporal lobe atrophy in semantic dementia and Alzheimer's disease. <i>Annals of Neurology</i> , 2001, 49, 433-442.	5.3	641
58	Frequency-domain simulation of MR tagging. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 1040-1050.	3.4	17
59	Simulation of two-dimensional tagged MRI. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 416-424.	3.4	20
60	<title>Rate-equation analysis of Protoporphyrin IX photo-oxidation</title>. , 1996, , .		6
61	<title>Measurement and modelling of protoporphyrin IX photo-oxidation during superficial PDT</title>. , 1996, , .		0
62	Shape and Texture. , 0, , 559-579.		9