Susumu Mori

List of Publications by Year in Descending Order

252 papers	29,132 citations	77 h-index	168 g-index
264 ext. papers	32,869 ext. citations	6.1 avg, IF	6.92 L-index

#	Paper	IF	Citations
252	Changes in pairwise functional connectivity associated with changes in cognitive performance in cognitively normal older individuals: a two-year observational study.. *Neuroscience Letters*, **2022**, 136618	3.3	1
251	Computerized paired associate learning performance and imaging biomarkers in older adults without dementia. *Brain Imaging and Behavior*, **2021**, 1	4.1	0
250	Time-dependent diffusion MRI probes cerebellar microstructural alterations in a mouse model of Down syndrome. *Brain Communications*, **2021**, 3, fcab062	4.5	1
249	The association of neuropsychiatric symptoms with regional brain volumes from patients in a tertiary multi-disciplinary memory clinic. *International Psychogeriatrics*, **2021**, 33, 233-244	3.4	7
248	Systematic volumetric analysis predicts response to CSF drainage and outcome to shunt surgery in idiopathic normal pressure hydrocephalus. *European Radiology*, **2021**, 31, 4972-4980	8	4
247	Multimodal MRI assessment for first episode psychosis: A major change in the thalamus and an efficient stratification of a subgroup. *Human Brain Mapping*, **2021**, 42, 1034-1053	5.9	6
246	Diffeomorphic Registration With Intensity Transformation and Missing Data: Application to 3D Digital Pathology of Alzheimer's Disease. *Frontiers in Neuroscience*, **2020**, 14, 52	5.1	12
245	Nemo-like kinase reduces mutant huntingtin levels and mitigates Huntington's disease. *Human Molecular Genetics*, **2020**, 29, 1340-1352	5.6	4
244	Mapping tracts in the human subthalamic area by 11.7T ex vivo diffusion tensor imaging. *Brain Structure and Function*, **2020**, 225, 1293-1312	4	7
243	Developmental, cellular, and behavioral phenotypes in a mouse model of congenital hypoplasia of the dentate gyrus. *ELife*, **2020**, 9,	8.9	2
242	Medial temporal lobe white matter pathway variability is associated with individual differences in episodic memory in cognitively normal older adults. *Neurobiology of Aging*, **2020**, 87, 78-88	5.6	3
241	Abnormal Brain Development in Huntington's Disease Is Recapitulated in the zQ175 Knock-In Mouse Model. *Cerebral Cortex Communications*, **2020**, 1, tgaa044	1.9	0
240	Overlapping but Asymmetrical Relationships Between Schizophrenia and Autism Revealed by Brain Connectivity. *Schizophrenia Bulletin*, **2020**,	1.3	14
239	Aqueductal Cerebrospinal Fluid Stroke Volume Flow in a Rodent Model of Chronic Communicating Hydrocephalus: Establishing a Homogeneous Study Population for Cerebrospinal Fluid Dynamics Exploration. *World Neurosurgery*, **2019**, 128, e1118-e1125	2.1	3
238	Developmental trajectories of the human embryologic brain regions. *Neuroscience Letters*, **2019**, 708, 134342	3.3	1
237	Virtual Rhesus Labyrinth Model Predicts Responses to Electrical Stimulation Delivered by a Vestibular Prosthesis. *JARO - Journal of the Association for Research in Otolaryngology*, **2019**, 20, 313-339	3.3	7
236	Low-Frequency Right Repetitive Transcranial Magnetic Stimulation for the Treatment of Depression After Traumatic Brain Injury: A Randomized Sham-Controlled Pilot Study. *Journal of Neuropsychiatry and Clinical Neurosciences*, **2019**, 31, 306-318	2.7	22

235	A Multi-Atlas Label Fusion Tool for Neonatal Brain MRI Parcellation and Quantification. *Journal of Neuroimaging*, **2019**, 29, 431-439	2.8	4
234	The day when computers read between lines. *Japanese Journal of Radiology*, **2019**, 37, 351-353	2.9	2
233	Multi-atlas based detection and localization (MADL) for location-dependent quantification of white matter hyperintensities. *NeuroImage: Clinical*, **2019**, 22, 101772	5.3	7
232	Cloud-Based Brain Magnetic Resonance Image Segmentation and Parcellation System for Individualized Prediction of Cognitive Worsening. *Journal of Healthcare Engineering*, **2019**, 2019, 9507193	3.7	1
231	Connectome-wide network analysis of white matter connectivity in Alzheimer's disease. *NeuroImage: Clinical*, **2019**, 22, 101690	5.3	9
230	Multi-atlas tool for automated segmentation of brain gray matter nuclei and quantification of their magnetic susceptibility. *NeuroImage*, **2019**, 191, 337-349	7.9	25
229	Automated Generation of Radiologic Descriptions on Brain Volume Changes From T1-Weighted MR Images: Initial Assessment of Feasibility. *Frontiers in Neurology*, **2019**, 10, 7	4.1	2
228	Extended multimodal whole-brain anatomical covariance analysis: detection of disrupted correlation networks related to amyloid deposition. *Heliyon*, **2019**, 5, e02074	3.6	4
227	Cognitive effort decreases beta, alpha, and theta coherence and ends afterdischarges in human brain. *Clinical Neurophysiology*, **2019**, 130, 2169-2181	4.3	2
226	Test-retest reproducibility of a multi-atlas automated segmentation tool on multimodality brain MRI. *Brain and Behavior*, **2019**, 9, e01363	3.4	10
225	ASL-MRICloud: An online tool for the processing of ASL MRI data. *NMR in Biomedicine*, **2019**, 32, e4051	4.4	17
224	Diffusion MRI fiber tractography of the brain. *NMR in Biomedicine*, **2019**, 32, e3785	4.4	175
223	Predicting progression from normal cognition to mild cognitive impairment for individuals at 5 years. *Brain*, **2018**, 141, 877-887	11.2	57
222	In vivo assessment of the placental anatomy and perfusion in a mouse model of intrauterine inflammation. *Journal of Magnetic Resonance Imaging*, **2018**, 47, 1260-1267	5.6	8
221	Whole-brain Segmentation and Change-point Analysis of Anatomical Brain MRI-Application in Premanifest Huntington's Disease. *Journal of Visualized Experiments*, **2018**,	1.6	1
220	Atlas pre-selection strategies to enhance the efficiency and accuracy of multi-atlas brain segmentation tools. *PLoS ONE*, **2018**, 13, e0200294	3.7	4
219	P3-451: QUANTIFICATION OF 3D TANGLE DISTRIBUTION IN MEDIAL TEMPORAL LOBE USING MULTIMODAL IMAGE REGISTRATION AND CONVOLUTIONAL NEURAL NETWORKS **2018**, 14, P1291-P1291		1
218	P2-432: REGIONAL WHITE MATTER HYPERINTENSITIES ARE DIFFERENTIALLY RELATED TO MEASURES OF VASCULAR RISK AND ALZHEIMER'S DISEASE **2018**, 14, P878-P878		

217	The Japan Monkey Centre Primates Brain Imaging Repository for comparative neuroscience: an archive of digital records including records for endangered species. *Primates*, **2018**, 59, 553-570	1.7	9
216	Cognitive impairments induced by necrotizing enterocolitis can be prevented by inhibiting microglial activation in mouse brain. *Science Translational Medicine*, **2018**, 10,	17.5	54
215	Ventricular Volume Dynamics During the Development of Adult Chronic Communicating Hydrocephalus in a Rodent Model. *World Neurosurgery*, **2018**, 120, e1120-e1127	2.1	0
214	Diffusion tensor imaging measures of white matter compared to myelin basic protein immunofluorescence in tissue cleared intact brains. *Data in Brief*, **2017**, 10, 438-443	1.2	15
213	Multimodality MRI assessment of grey and white matter injury and blood-brain barrier disruption after intracerebral haemorrhage in mice. *Scientific Reports*, **2017**, 7, 40358	4.9	52
212	Abnormal neurogenesis and cortical growth in congenital heart disease. *Science Translational Medicine*, **2017**, 9,	17.5	44
211	Complete Disruption of the Kainate Receptor Gene Family Results in Corticostriatal Dysfunction in Mice. *Cell Reports*, **2017**, 18, 1848-1857	10.6	18
210	Imaging of Glial Cell Activation and White Matter Integrity in Brains of Active and Recently Retired National Football League Players. *JAMA Neurology*, **2017**, 74, 67-74	17.2	101
209	Population-averaged macaque brain atlas with high-resolution ex vivo DTI integrated into in vivo space. *Brain Structure and Function*, **2017**, 222, 4131-4147	4	24
208	2,4 DNP improves motor function, preserves medium spiny neuronal identity, and reduces oxidative stress in a mouse model of Huntington disease. *Experimental Neurology*, **2017**, 293, 83-90	5.7	17
207	The role of myelination in measures of white matter integrity: Combination of diffusion tensor imaging and two-photon microscopy of CLARITY intact brains. *NeuroImage*, **2017**, 147, 253-261	7.9	94
206	Temporal Subtraction of Serial CT Images with Large Deformation Diffeomorphic Metric Mapping in the Identification of Bone Metastases. *Radiology*, **2017**, 285, 629-639	20.5	21
205	Mapping the order and pattern of brain structural MRI changes using change-point analysis in premanifest Huntington disease. *Human Brain Mapping*, **2017**, 38, 5035-5050	5.9	19
204	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	3.6	25
203	White matter tracts critical for recognition of sarcasm. *Neurocase*, **2016**, 22, 22-9	0.8	13
202	Cerebral Reorganization after Hemispherectomy: A DTI Study. *American Journal of Neuroradiology*, **2016**, 37, 924-31	4.4	11
201	Resource atlases for multi-atlas brain segmentations with multiple ontology levels based on T1-weighted MRI. *NeuroImage*, **2016**, 125, 120-130	7.9	60
200	Is There a Causal Relation between Maternal Acetaminophen Administration and ADHD?. *PLoS ONE* , **2016**, 11, e0157380	3.7	6

199	A Spontaneous Missense Mutation in Branched Chain Keto Acid Dehydrogenase Kinase in the Rat Affects Both the Central and Peripheral Nervous Systems. *PLoS ONE*, **2016**, 11, e0160447	3.7	6
198	Myofiber Architecture of the Human Atria as Revealed by Submillimeter Diffusion Tensor Imaging. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e004133	6.4	84
197	MRICloud: Delivering High-Throughput MRI Neuroinformatics as Cloud-Based Software as a Service. *Computing in Science and Engineering*, **2016**, 18, 21-35	1.5	81
196	Direct estimation of patient attributes from anatomical MRI based on multi-atlas voting. *NeuroImage: Clinical*, **2016**, 12, 570-581	5.3	12
195	Neuroanatomical and behavioral deficits in mice haploinsufficient for Pericentriolar material 1 (Pcm1). *Neuroscience Research*, **2015**, 98, 45-9	2.9	14
194	Diffusion MR Microscopy of Cortical Development in the Mouse Embryo. *Cerebral Cortex*, **2015**, 25, 1970-80	5.1	16
193	Amygdalar atrophy in symptomatic Alzheimer's disease based on diffeomorphometry: the BIOCARD cohort. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S3-S10	5.6	39
192	Sex-Based Dissociation of White Matter Microstructure in Children With Attention-Deficit/Hyperactivity Disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, **2015**, 54, 938-46	7.2	21
191	Fractional anisotropy in individuals with schizophrenia and their nonpsychotic siblings. *Psychiatry Research - Neuroimaging*, **2015**, 231, 87-91	2.9	8
190	Atlas-based diffusion tensor imaging correlates of executive function. *Journal of Alzheimer's Disease*, **2015**, 44, 585-98	4.3	17
189	Probing region-specific microstructure of human cortical areas using high angular and spatial resolution diffusion MRI. *NeuroImage*, **2015**, 105, 198-207	7.9	50
188	Network Neurodegeneration in Alzheimer's Disease via MRI Based Shape Diffeomorphometry and High-Field Atlasing. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 54	5.8	30
187	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	5.1	41
186	Evaluation of Cross-Protocol Stability of a Fully Automated Brain Multi-Atlas Parcellation Tool. *PLoS ONE*, **2015**, 10, e0133533	3.7	24
185	Early white matter abnormalities, progressive brain pathology and motor deficits in a novel knock-in mouse model of Huntington's disease. *Human Molecular Genetics*, **2015**, 24, 2508-27	5.6	51
184	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, 367-76	5.3	31
183	Critical role of the right uncinate fasciculus in emotional empathy. *Annals of Neurology*, **2015**, 77, 68-74	9.4	85
182	Comparing fractional anisotropy in patients with childhood-onset schizophrenia, their healthy siblings, and normal volunteers through DTI. *Schizophrenia Bulletin*, **2015**, 41, 66-73	1.3	19

181	Diffusion tensor imaging for understanding brain development in early life. *Annual Review of Psychology*, **2015**, 66, 853-76	26.1	129
180	Novel BAC Mouse Model of Huntington's Disease with 225 CAG Repeats Exhibits an Early Widespread and Stable Degenerative Phenotype. *Journal of Huntington's Disease*, **2015**, 4, 17-36	1.9	5
179	Evaluation of group-specific, whole-brain atlas generation using Volume-based Template Estimation (VTE): application to normal and Alzheimer's populations. *NeuroImage*, **2014**, 84, 406-19	7.9	20
178	Localized diffusion magnetic resonance micro-imaging of the live mouse brain. *NeuroImage*, **2014**, 91, 12-20	7.9	23
177	Longitudinal Imaging and Deterioration in Word Comprehension in Primary Progressive Aphasia: Potential Clinical Significance. *Aphasiology*, **2014**, 28, 948-963	1.6	16
176	Corpus callosum diffusion tensor imaging and volume measures are associated with disease severity in pediatric Niemann-Pick disease type C1. *Pediatric Neurology*, **2014**, 51, 669-674.e5	2.9	14
175	Tools for multiple granularity analysis of brain MRI data for individualized image analysis. *NeuroImage*, **2014**, 101, 168-76	7.9	38
174	A Bayesian approach to the creation of a study-customized neonatal brain atlas. *NeuroImage*, **2014**, 101, 256-67	7.9	11
173	Knowledge-based automated reconstruction of human brain white matter tracts using a path-finding approach with dynamic programming. *NeuroImage*, **2014**, 88, 271-81	7.9	9
172	Mouse model of intrauterine inflammation: sex-specific differences in long-term neurologic and immune sequelae. *Brain, Behavior, and Immunity*, **2014**, 38, 142-50	16.6	60
171	Sirtuin 1 activator SRT2104 protects Huntington's disease mice. *Annals of Clinical and Translational Neurology*, **2014**, 1, 1047-52	5.3	33
170	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	3.7	10
169	Multi-contrast multi-atlas parcellation of diffusion tensor imaging of the human brain. *PLoS ONE*, **2014**, 9, e96985	3.7	45
168	An efficient approach for differentiating Alzheimer's disease from normal elderly based on multicenter MRI using gray-level invariant features. *PLoS ONE*, **2014**, 9, e105563	3.7	17
167	In vivo magnetic resonance imaging of the human limbic white matter. *Frontiers in Aging Neuroscience*, **2014**, 6, 321	5.3	37
166	Chronic exposure of mutant DISC1 mice to lead produces sex-dependent abnormalities consistent with schizophrenia and related mental disorders: a gene-environment interaction study. *Schizophrenia Bulletin*, **2014**, 40, 575-84	1.3	40
165	Reprint of "Quantitative evaluation of brain development using anatomical MRI and diffusion tensor imaging". *International Journal of Developmental Neuroscience*, **2014**, 32, 28-40	2.7	
164	Maternal pravastatin prevents altered fetal brain development in a preeclamptic CD-1 mouse model. *PLoS ONE*, **2014**, 9, e100873	3.7	25

163	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	12	38
162	Anatomical characterization of athetotic and spastic cerebral palsy using an atlas-based analysis. *Journal of Magnetic Resonance Imaging*, **2013**, 38, 288-98	5.6	20
161	The diffeomorphometry of temporal lobe structures in preclinical Alzheimer's disease. *NeuroImage: Clinical*, **2013**, 3, 352-60	5.3	62
160	In vivo high-resolution diffusion tensor imaging of the mouse brain. *NeuroImage*, **2013**, 83, 18-26	7.9	53
159	Acute lesions that impair affective empathy. *Brain*, **2013**, 136, 2539-49	11.2	102
158	Quantitative evaluation of brain development using anatomical MRI and diffusion tensor imaging. *International Journal of Developmental Neuroscience*, **2013**, 31, 512-24	2.7	67
157	Corpus callosum measurements correlate with developmental delay in Smith-Lemli-Opitz syndrome. *Pediatric Neurology*, **2013**, 49, 107-12	2.9	8
156	AtlasGuide: software for stereotaxic guidance using 3D CT/MRI hybrid atlases of developing mouse brains. *Journal of Neuroscience Methods*, **2013**, 220, 75-84	3	13
155	Gross feature recognition of Anatomical Images based on Atlas grid (GAIA): Incorporating the local discrepancy between an atlas and a target image to capture the features of anatomic brain MRI. *NeuroImage: Clinical*, **2013**, 3, 202-11	5.3	8
154	Human brain atlas for automated region of interest selection in quantitative susceptibility mapping: application to determine iron content in deep gray matter structures. *NeuroImage*, **2013**, 82, 449-69	7.9	112
153	Feasibility of creating a high-resolution 3D diffusion tensor imaging based atlas of the human brainstem: a case study at 11.7 T. *NeuroImage*, **2013**, 74, 117-27	7.9	51
152	Diffusion tensor imaging of normal brain development. *Pediatric Radiology*, **2013**, 43, 15-27	2.8	99
151	Diffeomorphic brain mapping based on T1-weighted images: improvement of registration accuracy by multichannel mapping. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 76-84	5.6	26
150	Quantification of white matter injury following neonatal stroke with serial DTI. *Pediatric Research*, **2013**, 73, 756-62	3.2	26
149	Cortico-cortical, cortico-striatal, and cortico-thalamic white matter fiber tracts generated in the macaque brain via dynamic programming. *Brain Connectivity*, **2013**, 3, 475-90	2.7	8
148	Small-molecule TrkB receptor agonists improve motor function and extend survival in a mouse model of Huntington's disease. *Human Molecular Genetics*, **2013**, 22, 2462-70	5.6	91
147	Distinct mechanisms and timing of language recovery after stroke. *Cognitive Neuropsychology*, **2013**, 30, 454-75	2.3	37
146	High-throughput neuro-imaging informatics. *Frontiers in Neuroinformatics*, **2013**, 7, 31	3.9	17

145	Patterns of Dysgraphia in Primary Progressive Aphasia Compared to Post-Stroke Aphasia. *Behavioural Neurology*, **2013**, 26, 21-34	3	18
144	Image corruption detection in diffusion tensor imaging for post-processing and real-time monitoring. *PLoS ONE*, **2013**, 8, e49764	3.7	23
143	Bayesian Parameter Estimation and Segmentation in the Multi-Atlas Random Orbit Model. *PLoS ONE*, **2013**, 8, e65591	3.7	111
142	Patterns of dysgraphia in primary progressive aphasia compared to post-stroke aphasia. *Behavioural Neurology*, **2013**, 26, 21-34	3	10
141	The fornix sign: a potential sign for Alzheimer's disease based on diffusion tensor imaging. *Journal of Neuroimaging*, **2012**, 22, 365-74	2.8	65
140	Probing mouse brain microstructure using oscillating gradient diffusion MRI. *Magnetic Resonance in Medicine*, **2012**, 67, 98-109	4.4	75
139	Depressive symptoms in prodromal Huntington's Disease correlate with Stroop-interference related functional connectivity in the ventromedial prefrontal cortex. *Psychiatry Research - Neuroimaging*, **2012**, 203, 166-74	2.9	30
138	The viral theory of schizophrenia revisited: abnormal placental gene expression and structural changes with lack of evidence for H1N1 viral presence in placentae of infected mice or brains of exposed offspring. *Neuropharmacology*, **2012**, 62, 1290-8	5.5	51
137	Structural insights into the rodent CNS via diffusion tensor imaging. *Trends in Neurosciences*, **2012**, 35, 412-21	13.3	52
136	Alteration of brain volume in IL-6 overexpressing mice related to autism. *International Journal of Developmental Neuroscience*, **2012**, 30, 554-9	2.7	17
135	Spatiotemporal mapping of brain atrophy in mouse models of Huntington's disease using longitudinal in vivo magnetic resonance imaging. *NeuroImage*, **2012**, 60, 2086-95	7.9	22
134	Atlas-based analysis of resting-state functional connectivity: evaluation for reproducibility and multi-modal anatomy-function correlation studies. *NeuroImage*, **2012**, 61, 613-21	7.9	92
133	In vivo and ex vivo diffusion tensor imaging of cuprizone-induced demyelination in the mouse corpus callosum. *Magnetic Resonance in Medicine*, **2012**, 67, 750-9	4.4	59
132	Diffusion tensor imaging of neuropsychiatric symptoms in mild cognitive impairment and Alzheimer's dementia. *Journal of Neuropsychiatry and Clinical Neurosciences*, **2012**, 24, 484-8	2.7	44
131	Multicenter reliability of diffusion tensor imaging. *Brain Connectivity*, **2012**, 2, 345-55	2.7	53
130	Relatively normal repetition performance despite severe disruption of the left arcuate fasciculus. *Neurocase*, **2012**, 18, 521-6	0.8	8
129	Transgenic mouse model expressing the caspase 6 fragment of mutant huntingtin. *Journal of Neuroscience*, **2012**, 32, 183-93	6.6	44
128	Quantitative analysis of gray and white matter in Williams syndrome. *NeuroReport*, **2012**, 23, 283-9	1.7	19

127	Multi-contrast human neonatal brain atlas: application to normal neonate development analysis. *NeuroImage*, **2011**, 56, 8-20	7.9	220
126	Quantification of accuracy and precision of multi-center DTI measurements: a diffusion phantom and human brain study. *NeuroImage*, **2011**, 56, 1398-411	7.9	108
125	Structural MRI detects progressive regional brain atrophy and neuroprotective effects in N171-82Q Huntington disease mouse model. *NeuroImage*, **2011**, 56, 1027-34	7.9	42
124	An MRI-based atlas and database of the developing mouse brain. *NeuroImage*, **2011**, 54, 80-9	7.9	107
123	Quantitative analysis of brain pathology based on MRI and brain atlases--applications for cerebral palsy. *NeuroImage*, **2011**, 54, 1854-61	7.9	57
122	Multi-parametric neuroimaging reproducibility: a 3-T resource study. *NeuroImage*, **2011**, 54, 2854-66	7.9	228
121	Superficially located white matter structures commonly seen in the human and the macaque brain with diffusion tensor imaging. *Brain Connectivity*, **2011**, 1, 37-47	2.7	31
120	Multi-modal MRI analysis with disease-specific spatial filtering: initial testing to predict mild cognitive impairment patients who convert to Alzheimer disease. *Frontiers in Neurology*, **2011**, 2, 54	4.1	37
119	In vivo magnetization transfer MRI shows dysmyelination in an ischemic mouse model of periventricular leukomalacia. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 2009-18	7.3	17
118	Virtual labyrinth model of vestibular afferent excitation via implanted electrodes: validation and application to design of a multichannel vestibular prosthesis. *Experimental Brain Research*, **2011**, 210, 623-40	2.3	27
117	Diffusion tensor imaging and beyond. *Magnetic Resonance in Medicine*, **2011**, 65, 1532-56	4.4	618
116	Age-dependent brain temperature decline assessed by diffusion-weighted imaging thermometry. *NMR in Biomedicine*, **2011**, 24, 1063-7	4.4	26
115	Region-specific gene expression in early postnatal mouse thalamus. *Journal of Comparative Neurology*, **2011**, 519, 544-61	3.4	40
114	A framework on surface-based connectivity quantification for the human brain. *Journal of Neuroscience Methods*, **2011**, 197, 324-32	3	6
113	Athetotic and spastic cerebral palsy: anatomic characterization based on diffusion-tensor imaging. *Radiology*, **2011**, 260, 511-20	20.5	30
112	Diffuse abnormality of low to moderately organized white matter in schizophrenia. *Brain Connectivity*, **2011**, 1, 511-9	2.7	8
111	Mesencephalic corticospinal atrophy predicts baseline deficit but not response to unilateral or bilateral arm training in chronic stroke. *Neurorehabilitation and Neural Repair*, **2011**, 25, 81-7	4.7	17
110	Development of axonal pathways in the human fetal fronto-limbic brain: histochemical characterization and diffusion tensor imaging. *Journal of Anatomy*, **2010**, 217, 400-17	2.9	113

109	Prenatal interaction of mutant DISC1 and immune activation produces adult psychopathology. *Biological Psychiatry*, **2010**, 68, 1172-81	7.9	208
108	Atlas-based analysis of neurodevelopment from infancy to adulthood using diffusion tensor imaging and applications for automated abnormality detection. *NeuroImage*, **2010**, 52, 415-28	7.9	132
107	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. *NeuroImage*, **2010**, 52, 1289-301	7.9	226
106	Longitudinal characterization of brain atrophy of a Huntington disease mouse model by automated morphological analyses of magnetic resonance images. *NeuroImage*, **2010**, 49, 2340-51	7.9	72
105	Automated vs. conventional tractography in multiple sclerosis: variability and correlation with disability. *NeuroImage*, **2010**, 49, 3047-56	7.9	39
104	Sensorimotor function and sensorimotor tracts after hemispherectomy. *Neuropsychologia*, **2010**, 48, 1192-9	3.2	24
103	Molecular regulation of the developing commissural plate. *Journal of Comparative Neurology*, **2010**, 518, 3645-61	3.4	37
102	Molecular regulation of the developing commissural plate. *Journal of Comparative Neurology*, **2010**, 518, spc1-spc1	3.4	1
101	Study of white matter anatomy and 3D tract reconstruction by diffusion tensor imaging. *International Journal of Imaging Systems and Technology*, **2010**, 20, 51-56	2.5	3
100	Three-dimensional diffusion tensor microimaging for anatomical characterization of the mouse brain. *Magnetic Resonance in Medicine*, **2010**, 64, 249-61	4.4	66
99	Surface-based analysis on shape and fractional anisotropy of white matter tracts in Alzheimer disease. *PLoS ONE*, **2010**, 5, e9811	3.7	19
98	Anatomical characterization of human fetal brain development with diffusion tensor magnetic resonance imaging. *Journal of Neuroscience*, **2009**, 29, 4263-73	6.6	248
97	Orthogonal diffusion-weighted MRI measures distinguish region-specific degeneration in cerebellar ataxia subtypes. *Journal of Neurology*, **2009**, 256, 1939-42	5.5	16
96	Reduced fractional anisotropy in early-stage cerebellar variant of multiple system atrophy. *Journal of Neuroimaging*, **2009**, 19, 127-31	2.8	19
95	Sensory and motor deficits in children with cerebral palsy born preterm correlate with diffusion tensor imaging abnormalities in thalamocortical pathways. *Developmental Medicine and Child Neurology*, **2009**, 51, 697-704	3.3	226
94	Abnormal expression of myelination genes and alterations in white matter fractional anisotropy following prenatal viral influenza infection at E16 in mice. *Schizophrenia Research*, **2009**, 112, 46-53	3.6	65
93	Diffusion tensor magnetic resonance imaging of Wallerian degeneration in rat spinal cord after dorsal root axotomy. *Journal of Neuroscience*, **2009**, 29, 3160-71	6.6	149
92	Prenatal viral infection of mice at E16 causes changes in gene expression in hippocampi of the offspring. *European Neuropsychopharmacology*, **2009**, 19, 648-53	1.2	37

91	Landmark-referenced voxel-based analysis of diffusion tensor images of the brainstem white matter tracts: application in patients with middle cerebral artery stroke. *NeuroImage*, **2009**, 44, 906-13	7.9	21
90	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, 486-99	7.9	354
89	Multi-contrast large deformation diffeomorphic metric mapping for diffusion tensor imaging. *NeuroImage*, **2009**, 47, 618-27	7.9	147
88	White matter atlases based on diffusion tensor imaging. *Current Opinion in Neurology*, **2009**, 22, 362-9	7.1	114
87	Maternal infection leads to abnormal gene regulation and brain atrophy in mouse offspring: implications for genesis of neurodevelopmental disorders. *Schizophrenia Research*, **2008**, 99, 56-70	3.6	216
86	Tract probability maps in stereotaxic spaces: analyses of white matter anatomy and tract-specific quantification. *NeuroImage*, **2008**, 39, 336-47	7.9	1002
85	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. *NeuroImage*, **2008**, 40, 570-582	7.9	1188
84	Automated fiber tracking of human brain white matter using diffusion tensor imaging. *NeuroImage*, **2008**, 42, 771-7	7.9	73
83	Human brain white matter atlas: identification and assignment of common anatomical structures in superficial white matter. *NeuroImage*, **2008**, 43, 447-57	7.9	378
82	Quantitative cortical mapping of fractional anisotropy in developing rat brains. *Journal of Neuroscience*, **2008**, 28, 1427-33	6.6	62
81	Diffusion tensor imaging at low SNR: nonmonotonic behaviors of tensor contrasts. *Magnetic Resonance Imaging*, **2008**, 26, 790-800	3.3	36
80	Correction of B0 susceptibility induced distortion in diffusion-weighted images using large-deformation diffeomorphic metric mapping. *Magnetic Resonance Imaging*, **2008**, 26, 1294-302	3.3	72
79	Filopodia are required for cortical neurite initiation. *Nature Cell Biology*, **2007**, 9, 1347-59	23.4	231
78	Effect of osmotherapy with hypertonic saline on regional cerebral edema following experimental stroke: a study utilizing magnetic resonance imaging. *Neurocritical Care*, **2007**, 7, 92-100	3.3	26
77	Passive immunization with anti-ganglioside antibodies directly inhibits axon regeneration in an animal model. *Journal of Neuroscience*, **2007**, 27, 27-34	6.6	87
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1 Characterization of Mouse Brain and Its Development using Diffusion Tensor Imaging and Computational Techniques 1