Susumu Mori

List of Publications by Citations

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	Three-dimensional tracking of axonal projections in the brain by magnetic resonance imaging. *Annals of Neurology*, **1999**, 45, 265-9	9.4	2898
251	Fiber tracking: principles and strategies - a technical review. *NMR in Biomedicine*, **2002**, 15, 468-80	4.4	1593
250	Fiber tract-based atlas of human white matter anatomy. *Radiology*, **2004**, 230, 77-87	20.5	1549
249	Principles of diffusion tensor imaging and its applications to basic neuroscience research. *Neuron*, **2006**, 51, 527-39	13.9	1245
248	Reproducibility of quantitative tractography methods applied to cerebral white matter. *NeuroImage*, **2007**, 36, 630-44	7.9	1209
247	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. *NeuroImage*, **2008**, 40, 570-582	7.9	1188
246	Tract probability maps in stereotaxic spaces: analyses of white matter anatomy and tract-specific quantification. *NeuroImage*, **2008**, 39, 336-47	7.9	1002
245	DtiStudio: resource program for diffusion tensor computation and fiber bundle tracking. *Computer Methods and Programs in Biomedicine*, **2006**, 81, 106-16	6.9	780
244	Diffusion tensor imaging and beyond. *Magnetic Resonance in Medicine*, **2011**, 65, 1532-56	4.4	618
243	Imaging cortical association tracts in the human brain using diffusion-tensor-based axonal tracking. *Magnetic Resonance in Medicine*, **2002**, 47, 215-23	4.4	480
242	Diffusion tensor imaging and axonal tracking in the human brainstem. *NeuroImage*, **2001**, 14, 723-35	7.9	451
241	Electric field and stimulating influence generated by deep brain stimulation of the subthalamic nucleus. *Clinical Neurophysiology*, **2004**, 115, 589-95	4.3	392
240	Human brain white matter atlas: identification and assignment of common anatomical structures in superficial white matter. *NeuroImage*, **2008**, 43, 447-57	7.9	378
239	Dominant-negative DISC1 transgenic mice display schizophrenia-associated phenotypes detected by measures translatable to humans. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14501-6	11.5	358
238	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
237	In vivo three-dimensional reconstruction of rat brain axonal projections by diffusion tensor imaging. *Magnetic Resonance in Medicine*, **1999**, 42, 1123-7	4.4	344
236	Pediatric diffusion tensor imaging: normal database and observation of the white matter maturation in early childhood. *NeuroImage*, **2006**, 29, 493-504	7.9	338

235	White and gray matter development in human fetal, newborn and pediatric brains. *NeuroImage*, **2006**, 33, 27-38	7.9	300
234	Accurate quantitation of water-amide proton exchange rates using the phase-modulated CLEAN chemical EXchange (CLEANEX-PM) approach with a Fast-HSQC (FHSQC) detection scheme. *Journal of Biomolecular NMR*, **1998**, 11, 221-6	3	279
233	DTI tractography based parcellation of white matter: application to the mid-sagittal morphology of corpus callosum. *NeuroImage*, **2005**, 26, 195-205	7.9	265
232	Brain white matter anatomy of tumor patients evaluated with diffusion tensor imaging. *Annals of Neurology*, **2002**, 51, 377-80	9.4	257
231	Anatomical characterization of human fetal brain development with diffusion tensor magnetic resonance imaging. *Journal of Neuroscience*, **2009**, 29, 4263-73	6.6	248
230	Effects of diffusion weighting schemes on the reproducibility of DTI-derived fractional anisotropy, mean diffusivity, and principal eigenvector measurements at 1.5T. *NeuroImage*, **2007**, 36, 1123-38	7.9	236
229	Diffusion-tensor MR imaging and fiber tractography: a new method of describing aberrant fiber connections in developmental CNS anomalies. *Radiographics*, **2005**, 25, 53-65; discussion 66-8	5.4	235
228	Filopodia are required for cortical neurite initiation. *Nature Cell Biology*, **2007**, 9, 1347-59	23.4	231
227	Towards multimodal atlases of the human brain. *Nature Reviews Neuroscience*, **2006**, 7, 952-66	13.5	231
226	Multi-parametric neuroimaging reproducibility: a 3-T resource study. *NeuroImage*, **2011**, 54, 2854-66	7.9	228
225	Diffusion tensor MR imaging of the brain and white matter tractography. *American Journal of Roentgenology*, **2002**, 178, 3-16	5.4	228
224	Diffusion tensor imaging in children and adolescents: reproducibility, hemispheric, and age-related differences. *NeuroImage*, **2007**, 34, 733-42	7.9	227
223	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. *NeuroImage*, **2010**, 52, 1289-301	7.9	226
222	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
221	Multi-contrast human neonatal brain atlas: application to normal neonate development analysis. *NeuroImage*, **2011**, 56, 8-20	7.9	220
220	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
219	Diffusion tensor imaging of the developing mouse brain. *Magnetic Resonance in Medicine*, **2001**, 46, 18-23	4.4	216
218	Diffusion weighting by the trace of the diffusion tensor within a single scan. *Magnetic Resonance in Medicine*, **1995**, 33, 41-52	4.4	214

217	Prenatal interaction of mutant DISC1 and immune activation produces adult psychopathology. *Biological Psychiatry*, **2010**, 68, 1172-81	7.9	208
216	Alpha-syntrophin deletion removes the perivascular but not endothelial pool of aquaporin-4 at the blood-brain barrier and delays the development of brain edema in an experimental model of acute hyponatremia. *FASEB Journal*, **2004**, 18, 542-4	0.9	200
215	Diffusion magnetic resonance imaging: its principle and applications. *The Anatomical Record*, **1999**, 257, 102-9		197
214	Diffusion MRI fiber tractography of the brain. *NMR in Biomedicine*, **2019**, 32, e3785	4.4	175
213	High resolution diffusion tensor imaging of axonal damage in focal inflammatory and demyelinating lesions in rat spinal cord. *Brain*, **2007**, 130, 2199-210	11.2	173
212	Ena/VASP Is Required for neuritogenesis in the developing cortex. *Neuron*, **2007**, 56, 441-55	13.9	168
211	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
210	Multi-contrast large deformation diffeomorphic metric mapping for diffusion tensor imaging. *NeuroImage*, **2009**, 47, 618-27	7.9	147
209	Three-dimensional anatomical characterization of the developing mouse brain by diffusion tensor microimaging. *NeuroImage*, **2003**, 20, 1639-48	7.9	136
208	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
207	Diffusion tensor imaging for understanding brain development in early life. *Annual Review of Psychology*, **2015**, 66, 853-76	26.1	129
206	Brain fiber tracking with clinically feasible diffusion-tensor MR imaging: initial experience. *Radiology*, **2003**, 227, 295-301	20.5	123
205	Application of Phase-Modulated CLEAN Chemical EXchange Spectroscopy (CLEANEX-PM) to Detect Water-Protein Proton Exchange and Intermolecular NOEs. *Journal of the American Chemical Society* , **1997**, 119, 6203-6204	16.4	122
204	Poly(ADP-ribose) polymerase impairs early and long-term experimental stroke recovery. *Stroke*, **2002**, 33, 1101-6	6.7	117
203	Proton MR spectroscopic and diffusion tensor brain MR imaging in X-linked adrenoleukodystrophy: initial experience. *Radiology*, **2002**, 225, 245-52	20.5	116
202	A framework for callosal fiber distribution analysis. *NeuroImage*, **2002**, 17, 1131-43	7.9	116
201	White matter atlases based on diffusion tensor imaging. *Current Opinion in Neurology*, **2009**, 22, 362-9	7.1	114
200	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

199	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
198	Regional white matter change in pre-symptomatic Huntington disease: a diffusion tensor imaging study. *Psychiatry Research - Neuroimaging*, **2005**, 140, 55-62	2.9	111
197	Bayesian Parameter Estimation and Segmentation in the Multi-Atlas Random Orbit Model. *PLoS ONE*, **2013**, 8, e65591	3.7	111
196	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
195	Axonal growth and guidance defects in Frizzled3 knock-out mice: a comparison of diffusion tensor magnetic resonance imaging, neurofilament staining, and genetically directed cell labeling. *Journal of Neuroscience*, **2006**, 26, 355-64	6.6	108
194	An MRI-based atlas and database of the developing mouse brain. *NeuroImage*, **2011**, 54, 80-9	7.9	107
193	Analytical expressions for the NMR apparent diffusion coefficients in an anisotropic system and a simplified method for determining fiber orientation. *Magnetic Resonance in Medicine*, **1995**, 34, 194-200	4.4	105
192	Acute lesions that impair affective empathy. *Brain*, **2013**, 136, 2539-49	11.2	102
191	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
190	Functional analysis of aquaporin-1 deficient red cells. The Colton-null phenotype. *Journal of Biological Chemistry*, **1996**, 271, 1309-13	5.4	101
189	Diffusion tensor imaging of normal brain development. *Pediatric Radiology*, **2013**, 43, 15-27	2.8	99
188	In vivo visualization of human neural pathways by magnetic resonance imaging. *Annals of Neurology* , **2000**, 47, 412-414	9.4	98
187	Proton NMR spectroscopy of solvent-saturable resonances: a new approach to study pH effects in situ. *Magnetic Resonance in Medicine*, **1998**, 40, 36-42	4.4	97
186	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
185	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
184	Small-molecule TrkB receptor agonists improve motor function and extend survival in a mouse model of Huntington disease. *Human Molecular Genetics*, **2013**, 22, 2462-70	5.6	91
183	A motion correction scheme by twin-echo navigation for diffusion-weighted magnetic resonance imaging with multiple RF echo acquisition. *Magnetic Resonance in Medicine*, **1998**, 40, 511-6	4.4	89
182	Passive immunization with anti-ganglioside antibodies directly inhibits axon regeneration in an animal model. *Journal of Neuroscience*, **2007**, 27, 27-34	6.6	87

181	Three-dimensional diffusion tensor magnetic resonance microimaging of adult mouse brain and hippocampus. *NeuroImage*, **2002**, 15, 892-901	7.9	86
180	Fiber density index correlates with reduced fractional anisotropy in white matter of patients with glioblastoma. *American Journal of Neuroradiology*, **2005**, 26, 2183-6	4.4	86
179	Critical role of the right uncinate fasciculus in emotional empathy. *Annals of Neurology*, **2015**, 77, 68-74	9.4	85
178	Myofiber Architecture of the Human Atria as Revealed by Submillimeter Diffusion Tensor Imaging. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e004133	6.4	84
177	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
176	High-resolution diffusion tensor imaging of the brain stem at 3 T. *American Journal of Neuroradiology*, **2004**, 25, 1325-30	4.4	78
175	Probing mouse brain microstructure using oscillating gradient diffusion MRI. *Magnetic Resonance in Medicine*, **2012**, 67, 98-109	4.4	75
174	Multiparametric magnetic resonance imaging analysis of the corticospinal tract in multiple sclerosis. *NeuroImage*, **2007**, 38, 271-9	7.9	74
173	Automated fiber tracking of human brain white matter using diffusion tensor imaging. *NeuroImage*, **2008**, 42, 771-7	7.9	73
172	Evidence of slow maturation of the superior longitudinal fasciculus in early childhood by diffusion tensor imaging. *NeuroImage*, **2007**, 38, 239-47	7.9	73
171	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
170	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
169	Mapping postnatal mouse brain development with diffusion tensor microimaging. *NeuroImage*, **2005**, 26, 1042-51	7.9	72
168	Spatiotemporal maturation patterns of murine brain quantified by diffusion tensor MRI and deformation-based morphometry. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6978-83	11.5	71
167	Separation of intramolecular NOE and exchange peaks in water exchange spectroscopy using spin-echo filters. *Journal of Biomolecular NMR*, **1996**, 7, 77-82	3	70
166	Correlation of the average water diffusion constant with cerebral blood flow and ischemic damage after transient middle cerebral artery occlusion in cats. *Journal of Cerebral Blood Flow and Metabolism*, **1996**, 16, 881-91	7.3	69
165	Diffusion tensor MRI visualizes decreased subcortical fiber connectivity in focal cortical dysplasia. *NeuroImage*, **2004**, 22, 1826-9	7.9	68
164	Quantitative evaluation of brain development using anatomical MRI and diffusion tensor imaging. *International Journal of Developmental Neuroscience*, **2013**, 31, 512-24	2.7	67

163	Three-dimensional diffusion tensor microimaging for anatomical characterization of the mouse brain. *Magnetic Resonance in Medicine*, **2010**, 64, 249-61	4.4	66
162	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
161	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
160	Towards effective and rewarding data sharing. *Neuroinformatics*, **2003**, 1, 289-95	3.2	63
159	The diffeomorphometry of temporal lobe structures in preclinical Alzheimer's disease. *NeuroImage: Clinical*, **2013**, 3, 352-60	5.3	62
158	Quantitative cortical mapping of fractional anisotropy in developing rat brains. *Journal of Neuroscience*, **2008**, 28, 1427-33	6.6	62
157	Resource atlases for multi-atlas brain segmentations with multiple ontology levels based on T1-weighted MRI. *NeuroImage*, **2016**, 125, 120-130	7.9	60
156	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
155	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
154	Diffusion tensor MR imaging visualizes the altered hemispheric fiber connection in callosal dysgenesis. *American Journal of Neuroradiology*, **2004**, 25, 25-8	4.4	59
153	Holoprosencephaly in children: diffusion tensor MR imaging of white matter tracts of the brainstem--initial experience. *Radiology*, **2002**, 223, 645-51	20.5	58
152	Predicting progression from normal cognition to mild cognitive impairment for individuals at 5 years. *Brain*, **2018**, 141, 877-887	11.2	57
151	Quantitative analysis of brain pathology based on MRI and brain atlases--applications for cerebral palsy. *NeuroImage*, **2011**, 54, 1854-61	7.9	57
150	Human white matter atlas. *American Journal of Psychiatry*, **2007**, 164, 1005	11.9	57
149	Cognitive impairments induced by necrotizing enterocolitis can be prevented by inhibiting microglial activation in mouse brain. *Science Translational Medicine*, **2018**, 10,	17.5	54
148	In vivo high-resolution diffusion tensor imaging of the mouse brain. *NeuroImage*, **2013**, 83, 18-26	7.9	53
147	Multicenter reliability of diffusion tensor imaging. *Brain Connectivity*, **2012**, 2, 345-55	2.7	53
146	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

145	Structural insights into the rodent CNS via diffusion tensor imaging. *Trends in Neurosciences*, **2012**, 35, 412-21	13.3	52
144	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
143	Early white matter abnormalities, progressive brain pathology and motor deficits in a novel knock-in mouse model of Huntington disease. *Human Molecular Genetics*, **2015**, 24, 2508-27	5.6	51
142	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
141	Water Exchange Filter (WEX Filter) for Nuclear Magnetic Resonance Studies of Macromolecules. *Journal of the American Chemical Society*, **1994**, 116, 11982-11984	16.4	51
140	Probing region-specific microstructure of human cortical areas using high angular and spatial resolution diffusion MRI. *NeuroImage*, **2015**, 105, 198-207	7.9	50
139	Diffusion tensor magnetic resonance imaging and tract-tracing analysis of Probst bundle structure in Netrin1- and DCC-deficient mice. *Journal of Neuroscience*, **2007**, 27, 10345-9	6.6	49
138	NMR Study of Rapidly Exchanging Backbone Amide Protons in Staphylococcal Nuclease and the Correlation with Structural and Dynamic Properties. *Journal of the American Chemical Society*, **1997**, 119, 6844-6852	16.4	47
137	Functional activation using apparent diffusion coefficient-dependent contrast allows better spatial localization to the neuronal activity: evidence using diffusion tensor imaging and fiber tracking. *NeuroImage*, **2003**, 20, 955-61	7.9	46
136	Multi-contrast multi-atlas parcellation of diffusion tensor imaging of the human brain. *PLoS ONE*, **2014**, 9, e96985	3.7	45
135	Abnormal neurogenesis and cortical growth in congenital heart disease. *Science Translational Medicine*, **2017**, 9,	17.5	44
134	Diffusion tensor imaging of neuropsychiatric symptoms in mild cognitive impairment and Alzheimer dementia. *Journal of Neuropsychiatry and Clinical Neurosciences*, **2012**, 24, 484-8	2.7	44
133	Transgenic mouse model expressing the caspase 6 fragment of mutant huntingtin. *Journal of Neuroscience*, **2012**, 32, 183-93	6.6	44
132	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
131	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
130	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
129	Region-specific gene expression in early postnatal mouse thalamus. *Journal of Comparative Neurology*, **2011**, 519, 544-61	3.4	40
128	Measurement of water□mide proton exchange rates in the denatured state of staphylococcal nuclease by a magnetization transfer technique. *Proteins: Structure, Function and Bioinformatics*, **1997**, 28, 325-332	4.2	40

127	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
126	Automated vs. conventional tractography in multiple sclerosis: variability and correlation with disability. *NeuroImage*, **2010**, 49, 3047-56	7.9	39
125	Tools for multiple granularity analysis of brain MRI data for individualized image analysis. *NeuroImage*, **2014**, 101, 168-76	7.9	38
124	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
123	In vivo magnetic resonance imaging of the human limbic white matter. *Frontiers in Aging Neuroscience*, **2014**, 6, 321	5.3	37
122	Distinct mechanisms and timing of language recovery after stroke. *Cognitive Neuropsychology*, **2013**, 30, 454-75	2.3	37
121	Multi-modal MRI analysis with disease-specific spatial filtering: initial testing to predict mild cognitive impairment patients who convert to Alzheimer's disease. *Frontiers in Neurology*, **2011**, 2, 54	4.1	37
120	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
119	Molecular regulation of the developing commissural plate. *Journal of Comparative Neurology*, **2010**, 518, 3645-61	3.4	37
118	Diffusion tensor imaging at low SNR: nonmonotonic behaviors of tensor contrasts. *Magnetic Resonance Imaging*, **2008**, 26, 790-800	3.3	36
117	Magnetic resonance diffusion tensor microimaging reveals a role for Bcl-x in brain development and homeostasis. *Journal of Neuroscience*, **2005**, 25, 1881-8	6.6	36
116	FAIR excluding radiation damping (FAIRER). *Magnetic Resonance in Medicine*, **1998**, 40, 712-9	4.4	34
115	Sirtuin 1 activator SRT2104 protects Huntington's disease mice. *Annals of Clinical and Translational Neurology*, **2014**, 1, 1047-52	5.3	33
114	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
113	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
112	Imaging of shifted stimulated echoes and multiple spin echoes. *Magnetic Resonance in Medicine*, **1997**, 37, 336-40	4.4	31
111	Tractography for arteriovenous malformations near the sensorimotor cortices. *American Journal of Neuroradiology*, **2005**, 26, 598-602	4.4	31
110	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

109	Depressive symptoms in prodromal Huntington Disease correlate with Stroop-interference related functional connectivity in the ventromedial prefrontal cortex. *Psychiatry Research - Neuroimaging*, **2012**, 203, 166-74	2.9	30
108	Athetotic and spastic cerebral palsy: anatomic characterization based on diffusion-tensor imaging. *Radiology*, **2011**, 260, 511-20	20.5	30
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106	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
105	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
104	Quantification of white matter injury following neonatal stroke with serial DTI. *Pediatric Research*, **2013**, 73, 756-62	3.2	26
103	Age-dependent brain temperature decline assessed by diffusion-weighted imaging thermometry. *NMR in Biomedicine*, **2011**, 24, 1063-7	4.4	26
102	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
101	In vivo mapping of functional domains and axonal connectivity in cat visual cortex using magnetic resonance imaging. *Magnetic Resonance Imaging*, **2003**, 21, 1131-40	3.3	26
100	Diffusion tensor MRI and fiber tractography of cerebellar atrophy in phenytoin users. *Epilepsia*, **2003**, 44, 1536-40	6.4	26
99	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
98	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
97	Sensorimotor function and axonal integrity in adrenomyeloneuropathy. *Archives of Neurology*, **2006** , 63, 74-80		25
96	Maternal pravastatin prevents altered fetal brain development in a preeclamptic CD-1 mouse model. *PLoS ONE*, **2014**, 9, e100873	3.7	25
95	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
94	Evaluation of Cross-Protocol Stability of a Fully Automated Brain Multi-Atlas Parcellation Tool. *PLoS ONE*, **2015**, 10, e0133533	3.7	24
93	Sensorimotor function and sensorimotor tracts after hemispherectomy. *Neuropsychologia*, **2010**, 48, 1192-9	3.2	24
92	Localized diffusion magnetic resonance micro-imaging of the live mouse brain. *NeuroImage*, **2014**, 91, 12-20	7.9	23

91	Image corruption detection in diffusion tensor imaging for post-processing and real-time monitoring. *PLoS ONE*, **2013**, 8, e49764	3.7	23
90	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
89	Spatiotemporal mapping of brain atrophy in mouse models of Huntington disease using longitudinal in vivo magnetic resonance imaging. *NeuroImage*, **2012**, 60, 2086-95	7.9	22
88	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
87	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
86	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
85	Evaluation of group-specific, whole-brain atlas generation using Volume-based Template Estimation (VTE): application to normal and Alzheimer populations. *NeuroImage*, **2014**, 84, 406-19	7.9	20
84	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
83	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
82	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
81	Reduced fractional anisotropy in early-stage cerebellar variant of multiple system atrophy. *Journal of Neuroimaging*, **2009**, 19, 127-31	2.8	19
80	Quantitative analysis of gray and white matter in Williams syndrome. *NeuroReport*, **2012**, 23, 283-9	1.7	19
79	Surface-based analysis on shape and fractional anisotropy of white matter tracts in Alzheimer disease. *PLoS ONE*, **2010**, 5, e9811	3.7	19
78	Complete Disruption of the Kainate Receptor Gene Family Results in Corticostriatal Dysfunction in Mice. *Cell Reports*, **2017**, 18, 1848-1857	10.6	18
77	Patterns of Dysgraphia in Primary Progressive Aphasia Compared to Post-Stroke Aphasia. *Behavioural Neurology*, **2013**, 26, 21-34	3	18
76	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
75	Atlas-based diffusion tensor imaging correlates of executive function. *Journal of Alzheimers Disease*, **2015**, 44, 585-98	4.3	17
74	An efficient approach for differentiating Alzheimer disease from normal elderly based on multicenter MRI using gray-level invariant features. *PLoS ONE*, **2014**, 9, e105563	3.7	17

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