Weili Lin

List of Publications by Citations

265 papers	10,093 citations	51 h-index	94 g-index
285 ext. papers	11,987 ext. citations	5.1 avg, IF	6.28 L-index

#	Paper	IF	Citations
265	A structural MRI study of human brain development from birth to 2 years. *Journal of Neuroscience*, **2008**, 28, 12176-82	6.6	725
264	Deep convolutional neural networks for multi-modality isointense infant brain image segmentation. *NeuroImage*, **2015**, 108, 214-24	7.9	519
263	Evidence on the emergence of the brain's default network from 2-week-old to 2-year-old healthy pediatric subjects. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6790-5	11.5	394
262	Infant brain atlases from neonates to 1- and 2-year-olds. *PLoS ONE*, **2011**, 6, e18746	3.7	328
261	Regional gray matter growth, sexual dimorphism, and cerebral asymmetry in the neonatal brain. *Journal of Neuroscience*, **2007**, 27, 1255-60	6.6	326
260	Longitudinal development of cortical and subcortical gray matter from birth to 2 years. *Cerebral Cortex*, **2012**, 22, 2478-85	5.1	311
259	Measuring tortuosity of the intracerebral vasculature from MRA images. *IEEE Transactions on Medical Imaging*, **2003**, 22, 1163-71	11.7	262
258	Temporal and spatial evolution of brain network topology during the first two years of life. *PLoS ONE*, **2011**, 6, e25278	3.7	190
257	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. *NeuroImage*, **2018**, 174, 550-562	7.9	182
256	Functional Network Development During the First Year: Relative Sequence and Socioeconomic Correlations. *Cerebral Cortex*, **2015**, 25, 2919-28	5.1	181
255	Quantitative measurements of cerebral blood oxygen saturation using magnetic resonance imaging. *Journal of Cerebral Blood Flow and Metabolism*, **2000**, 20, 1225-36	7.3	179
254	Functional Connectivity of the Infant Human Brain: Plastic and Modifiable. *Neuroscientist*, **2017**, 23, 169-184	7.4	177
253	In vivo measurement of blood oxygen saturation using magnetic resonance imaging: a direct validation of the blood oxygen level-dependent concept in functional brain imaging. *Human Brain Mapping*, **1997**, 5, 341-6	5.9	175
252	Development of human brain cortical network architecture during infancy. *Brain Structure and Function*, **2015**, 220, 1173-86	4	173
251	Vessel tortuosity and brain tumor malignancy: a blinded study. *Academic Radiology*, **2005**, 12, 1232-40	4.3	173
250	LINKS: learning-based multi-source IntegratioN frameworK for Segmentation of infant brain images. *NeuroImage*, **2015**, 108, 160-72	7.9	168
249	Functional connectivity MR imaging reveals cortical functional connectivity in the developing brain. *American Journal of Neuroradiology*, **2008**, 29, 1883-9	4.4	165

248	Neonatal brain image segmentation in longitudinal MRI studies. *NeuroImage*, **2010**, 49, 391-400	7.9	155
247	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. *NeuroImage*, **2019**, 185, 891-905	7.9	140
246	Segmentation of neonatal brain MR images using patch-driven level sets. *NeuroImage*, **2014**, 84, 141-58	7.9	136
245	Development of thalamocortical connectivity during infancy and its cognitive correlations. *Journal of Neuroscience*, **2014**, 34, 9067-75	6.6	129
244	Accurate determination of spin-density and T1 in the presence of RF-field inhomogeneities and flip-angle miscalibration. *Magnetic Resonance in Medicine*, **1998**, 40, 592-602	4.4	118
243	The synchronization within and interaction between the default and dorsal attention networks in early infancy. *Cerebral Cortex*, **2013**, 23, 594-603	5.1	116
242	Cerebral oxygen extraction fraction and cerebral venous blood volume measurements using MRI: effects of magnetic field variation. *Magnetic Resonance in Medicine*, **2002**, 47, 958-66	4.4	107
241	Quantitative measurements of cerebral blood flow in patients with unilateral carotid artery occlusion: a PET and MR study. *Journal of Magnetic Resonance Imaging*, **2001**, 14, 659-67	5.6	102
240	Impact of intravascular signal on quantitative measures of cerebral oxygen extraction and blood volume under normo- and hypercapnic conditions using an asymmetric spin echo approach. *Magnetic Resonance in Medicine*, **2003**, 50, 708-16	4.4	96
239	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. *NeuroImage*, **2014**, 90, 266-79	7.9	92
238	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. *Medical Image Analysis*, **2015**, 25, 22-36	15.4	90
237	In vivo validation of the bold mechanism: A review of signal changes in gradient echo functional MRI in the presence of flow. *International Journal of Imaging Systems and Technology*, **1995**, 6, 153-163	2.5	88
236	Magnetic resonance cerebral metabolic rate of oxygen utilization in hyperacute stroke patients. *Annals of Neurology*, **2003**, 53, 227-32	9.4	84
235	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. *NeuroImage*, **2014**, 100, 206-18	7.9	83
234	Computational neuroanatomy of baby brains: A review. *NeuroImage*, **2019**, 185, 906-925	7.9	82
233	Intersubject variability of and genetic effects on the brain's functional connectivity during infancy. *Journal of Neuroscience*, **2014**, 34, 11288-96	6.6	81
232	The potential of infant fMRI research and the study of early life stress as a promising exemplar. *Developmental Cognitive Neuroscience*, **2015**, 12, 12-39	5.5	81
231	Integration of sparse multi-modality representation and anatomical constraint for isointense infant brain MR image segmentation. *NeuroImage*, **2014**, 89, 152-64	7.9	80

230	Hemodynamic and permeability changes in posterior reversible encephalopathy syndrome measured by dynamic susceptibility perfusion-weighted MR imaging. *American Journal of Neuroradiology*, **2005**, 26, 825-30	4.4	79
229	Associations between white matter microstructure and infantsQworking memory. *NeuroImage*, **2013**, 64, 156-66	7.9	76
228	Prenatal and neonatal brain structure and white matter maturation in children at high risk for schizophrenia. *American Journal of Psychiatry*, **2010**, 167, 1083-91	11.9	74
227	Cerebral venous and arterial blood volumes can be estimated separately in humans using magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2002**, 48, 583-8	4.4	71
226	Benchmark on Automatic 6-month-old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. *IEEE Transactions on Medical Imaging*, **2019**,	11.7	69
225	Longitudinal Study of the Emerging Functional Connectivity Asymmetry of Primary Language Regions during Infancy. *Journal of Neuroscience*, **2016**, 36, 10883-10892	6.6	61
224	Consistent anterior-posterior segregation of the insula during the first 2 years of life. *Cerebral Cortex*, **2015**, 25, 1176-87	5.1	60
223	Temporal relationship between apparent diffusion coefficient and absolute measurements of cerebral blood flow in acute stroke patients. *Stroke*, **2003**, 34, 64-70	6.7	60
222	Functional MRI in human somatosensory cortex activated by touching textured surfaces. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 565-72	5.6	60
221	Contrast-enhanced magnetic resonance angiography of carotid arterial wall in pigs. *Journal of Magnetic Resonance Imaging*, **1997**, 7, 183-90	5.6	59
220	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. *Medical Image Analysis*, **2018**, 46, 106-117	15.4	58
219	Quantitative measurements of regional cerebral blood volume using MRI in rats: effects of arterial carbon dioxide tension and mannitol. *Magnetic Resonance in Medicine*, **1997**, 38, 420-8	4.4	55
218	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. *NeuroImage*, **2019**, 185, 664-684	7.9	54
217	Prenatal mild ventriculomegaly predicts abnormal development of the neonatal brain. *Biological Psychiatry*, **2008**, 64, 1069-76	7.9	54
216	Prenatal drug exposure affects neonatal brain functional connectivity. *Journal of Neuroscience*, **2015**, 35, 5860-9	6.6	53
215	Quantitative measurements of cerebral metabolic rate of oxygen utilization using MRI: a volunteer study. *NMR in Biomedicine*, **2001**, 14, 441-7	4.4	53
214	Regional cerebral blood volume: a comparison of the dynamic imaging and the steady state methods. *Journal of Magnetic Resonance Imaging*, **1999**, 9, 44-52	5.6	49
213	Evaluation of MR-derived cerebral oxygen metabolic index in experimental hyperoxic hypercapnia, hypoxia, and ischemia. *Stroke*, **2009**, 40, 2165-72	6.7	48

212	3 Tesla magnetic resonance imaging of the brain in newborns. *Psychiatry Research - Neuroimaging*, **2004**, 132, 81-5	2.9	48
211	Investigating magnetic susceptibility of human knee joint at 7 Tesla. *Magnetic Resonance in Medicine*, **2017**, 78, 1933-1943	4.4	45
210	Associations between Tumor Vascularity, Vascular Endothelial Growth Factor Expression and PET/MRI Radiomic Signatures in Primary Clear-Cell-Renal-Cell-Carcinoma: Proof-of-Concept Study. *Scientific Reports*, **2017**, 7, 43356	4.9	44
209	Predicting standard-dose PET image from low-dose PET and multimodal MR images using mapping-based sparse representation. *Physics in Medicine and Biology*, **2016**, 61, 791-812	3.8	44
208	Improving high-resolution MR bold venographic imaging using a T1 reducing contrast agent. *Journal of Magnetic Resonance Imaging*, **1999**, 10, 118-23	5.6	44
207	Experimental hypoxemic hypoxia: changes in R2* of brain parenchyma accurately reflect the combined effects of changes in arterial and cerebral venous oxygen saturation. *Magnetic Resonance in Medicine*, **1998**, 39, 474-81	4.4	43
206	Cortical thickness and surface area in neonates at high risk for schizophrenia. *Brain Structure and Function*, **2016**, 221, 447-61	4	42
205	Practical consideration for 3T imaging. *Magnetic Resonance Imaging Clinics of North America*, **2003**, 11, 615-39, vi	1.6	42
204	Characteristics of magnetic resonance imaging biomarkers in a natural history study of golden retriever muscular dystrophy. *Neuromuscular Disorders*, **2014**, 24, 178-91	2.9	41
203	Automated quantification of cerebral edema following hemispheric infarction: Application of a machine-learning algorithm to evaluate CSF shifts on serial head CTs. *NeuroImage: Clinical*, **2016**, 12, 673-680	5.3	41
202	Volume-Based Analysis of 6-Month-Old Infant Brain MRI for Autism Biomarker Identification and Early Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 411-419	0.9	41
201	Quantitative magnetic resonance imaging in experimental hypercapnia: improvement in the relation between changes in brain R2 and the oxygen saturation of venous blood after correction for changes in cerebral blood volume. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 853-62	7.3	40
200	Defining the ischemic penumbra using magnetic resonance oxygen metabolic index. *Stroke*, **2015**, 46, 982-8	6.7	39
199	Longitudinal development of cortical thickness, folding, and fiber density networks in the first 2 years of life. *Human Brain Mapping*, **2014**, 35, 3726-37	5.9	39
198	Developmental topography of cortical thickness during infancy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15855-15860	11.5	37
197	Deep Learning for Fast and Spatially Constrained Tissue Quantification From Highly Accelerated Data in Magnetic Resonance Fingerprinting. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2364-2374	11.7	37
196	Visualization of perivascular spaces in the human brain at 7T: sequence optimization and morphology characterization. *NeuroImage*, **2016**, 125, 895-902	7.9	36
195	Network-Level Connectivity Dynamics of Movie Watching in 6-Year-Old Children. *Frontiers in Human Neuroscience*, **2015**, 9, 631	3.3	36

194	First-year development of modules and hubs in infant brain functional networks. *NeuroImage*, **2019**, 185, 222-235	7.9	36
193	Blood vessel morphologic changes depicted with MR angiography during treatment of brain metastases: a feasibility study. *Radiology*, **2007**, 245, 824-30	20.5	34
192	Initial experience in hybrid PET-MRI for evaluation of refractory focal onset epilepsy. *Seizure: the Journal of the British Epilepsy Association*, **2015**, 31, 1-4	3.2	33
191	Quantitative regional brain water measurement with magnetic resonance imaging in a focal ischemia model. *Magnetic Resonance in Medicine*, **1997**, 38, 303-10	4.4	33
190	Abnormal vessel tortuosity as a marker of treatment response of malignant gliomas: preliminary report. *Technology in Cancer Research and Treatment*, **2004**, 3, 577-84	2.7	33
189	Consensus statement on current and emerging methods for the diagnosis and evaluation of cerebrovascular disease. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 1391-1417	7.3	33
188	Prediction of standard-dose brain PET image by using MRI and low-dose brain [18F]FDG PET images. *Medical Physics*, **2015**, 42, 5301-9	4.4	32
187	Simultaneous and consistent labeling of longitudinal dynamic developing cortical surfaces in infants. *Medical Image Analysis*, **2014**, 18, 1274-89	15.4	31
186	Prenatal isolated mild ventriculomegaly is associated with persistent ventricle enlargement at ages 1 and 2. *Early Human Development*, **2012**, 88, 691-8	2.2	30
185	Magnetic resonance imaging of the brain with gadopentetate dimeglumine-DTPA: comparison of T1-weighted spin-echo and 3D gradient-echo sequences. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 415-24	5.6	30
184	Frequency of spontaneous BOLD signal shifts during infancy and correlates with cognitive performance. *Developmental Cognitive Neuroscience*, **2015**, 12, 40-50	5.5	28
183	The potential roles of 18F-FDG-PET in management of acute stroke patients. *BioMed Research International*, **2013**, 2013, 634598	3	28
182	SPHERE: SPherical Harmonic Elastic REgistration of HARDI data. *NeuroImage*, **2011**, 55, 545-56	7.9	28
181	MR fingerprinting enables quantitative measures of brain tissue relaxation times and myelin water fraction in the first five years of life. *NeuroImage*, **2019**, 186, 782-793	7.9	27
180	Functional Brain Parcellations of the Infant Brain and the Associated Developmental Trends. *Cerebral Cortex*, **2018**, 28, 1358-1368	5.1	26
179	High-resolution 3D MR Fingerprinting using parallel imaging and deep learning. *NeuroImage*, **2020**, 206, 116329	7.9	26
178	A review on neuroimaging studies of genetic and environmental influences on early brain development. *NeuroImage*, **2019**, 185, 802-812	7.9	26
177	Oxygen metabolism in acute ischemic stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 1481-1499	7.3	26

176	Dynamic perfusion and diffusion MRI of cortical spreading depolarization in photothrombotic ischemia. *Neurobiology of Disease*, **2014**, 71, 131-9	7.5	25
175	Signal evolution and infarction risk for apparent diffusion coefficient lesions in acute ischemic stroke are both time- and perfusion-dependent. *Stroke*, **2011**, 42, 1276-81	6.7	25
174	Spatiotemporal patterns of cortical fiber density in developing infants, and their relationship with cortical thickness. *Human Brain Mapping*, **2015**, 36, 5183-95	5.9	24
173	Intravascular contrast agent improves magnetic resonance angiography of carotid arteries in minipigs. *Journal of Magnetic Resonance Imaging*, **1997**, 7, 963-71	5.6	24
172	Probabilistic Air Segmentation and Sparse Regression Estimated Pseudo CT for PET/MR Attenuation Correction. *Radiology*, **2015**, 275, 562-9	20.5	23
171	Harmonization of Infant Cortical Thickness Using Surface-to-Surface Cycle-Consistent Adversarial Networks. *Lecture Notes in Computer Science*, **2019**, 11767, 475-483	0.9	23
170	Spherical U-Net on Cortical Surfaces: Methods and Applications. *Lecture Notes in Computer Science*, **2019**, 11492, 855-866	0.9	22
169	Preexisting statin use is associated with greater reperfusion in hyperacute ischemic stroke. *Stroke*, **2011**, 42, 1307-13	6.7	22
168	Computerized assessment of vessel morphological changes during treatment of glioblastoma multiforme: report of a case imaged serially by MRA over four years. *NeuroImage*, **2009**, 47 Suppl 2, T143-51	7.9	21
167	Dilated Dense U-Net for Infant Hippocampus Subfield Segmentation. *Frontiers in Neuroinformatics*, **2019**, 13, 30	3.9	20
166	Predicting infant cortical surface development using a 4D varifold-based learning framework and local topography-based shape morphing. *Medical Image Analysis*, **2016**, 28, 1-12	15.4	20
165	Effects of acute normovolemic hemodilution on T2*-weighted images of rat brain. *Magnetic Resonance in Medicine*, **1998**, 40, 857-64	4.4	20
164	Development of Amygdala Functional Connectivity During Infancy and Its Relationship With 4-Year Behavioral Outcomes. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2019**, 4, 62-71	3.4	20
163	Joint prediction of longitudinal development of cortical surfaces and white matter fibers from neonatal MRI. *NeuroImage*, **2017**, 152, 411-424	7.9	19
162	STGP: Spatio-temporal Gaussian process models for longitudinal neuroimaging data. *NeuroImage*, **2016**, 134, 550-562	7.9	19
161	Segmentation of perivascular spaces in 7T MR image using auto-context model with orientation-normalized features. *NeuroImage*, **2016**, 134, 223-235	7.9	19
160	Imaging Oxygen Metabolism In Acute Stroke Using MRI. *Current Radiology Reports*, **2014**, 2, 39	0.5	18
159	Structured Learning for 3-D Perivascular Space Segmentation Using Vascular Features. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 2803-2812	5	16

158	Alternate Metabolic Programs Define Regional Variation of Relevant Biological Features in Renal Cell Carcinoma Progression. *Clinical Cancer Research*, **2016**, 22, 2950-9	12.9	16
157	Exploring folding patterns of infant cerebral cortex based on multi-view curvature features: Methods and applications. *NeuroImage*, **2019**, 185, 575-592	7.9	16
156	Enhancement of Perivascular Spaces in 7 T MR Image using Haar Transform of Non-local Cubes and Block-matching Filtering. *Scientific Reports*, **2017**, 7, 8569	4.9	16
155	Oxygen metabolism in ischemic stroke using magnetic resonance imaging. *Translational Stroke Research*, **2012**, 3, 65-75	7.8	16
154	A unified optimization approach for diffusion tensor imaging technique. *NeuroImage*, **2009**, 44, 729-41	7.9	16
153	Morphology of perivascular spaces and enclosed blood vessels in young to middle-aged healthy adults at 7T: Dependences on age, brain region, and breathing gas. *NeuroImage*, **2020**, 218, 116978	7.9	15
152	The emergence of a functionally flexible brain during early infancy. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 23904-23913	11.5	15
151	Multi-Site Infant Brain Segmentation Algorithms: The iSeg-2019 Challenge. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1363-1376	11.7	15
150	Noninvasive Measurements of Cerebral Blood Flow, Oxygen Extraction Fraction, and Oxygen Metabolic Index in Human with Inhalation of Air and Carbogen using Magnetic Resonance Imaging. *Translational Stroke Research*, **2012**, 3, 246-54	7.8	14
149	Estimation of Clean and Centered Brain Network Atlases using Diffusive-Shrinking Graphs with Application to Developing Brains. *Lecture Notes in Computer Science*, **2017**, 10265, 385-397	0.9	14
148	Multi-task prediction of infant cognitive scores from longitudinal incomplete neuroimaging data. *NeuroImage*, **2019**, 185, 783-792	7.9	14
147	Emergence of a hierarchical brain during infancy reflected by stepwise functional connectivity. *Human Brain Mapping*, **2017**, 38, 2666-2682	5.9	13
146	Denoising of Diffusion MRI Data via Graph Framelet Matching in x-q Space. *IEEE Transactions on Medical Imaging*, **2019**, 38, 2838-2848	11.7	13
145	Super-resolution reconstruction of neonatal brain magnetic resonance images via residual structured sparse representation. *Medical Image Analysis*, **2019**, 55, 76-87	15.4	13
144	Individual identification and individual variability analysis based on cortical folding features in developing infant singletons and twins. *Human Brain Mapping*, **2020**, 41, 1985-2003	5.9	13
143	Anatomy-guided joint tissue segmentation and topological correction for 6-month infant brain MRI with risk of autism. *Human Brain Mapping*, **2018**, 39, 2609-2623	5.9	13
142	Learning-based subject-specific estimation of dynamic maps of cortical morphology at missing time points in longitudinal infant studies. *Human Brain Mapping*, **2016**, 37, 4129-4147	5.9	13
141	High-Pressure Transvenous Perfusion of the Upper Extremity in Human Muscular Dystrophy: A Safety Study with 0.9% Saline. *Human Gene Therapy*, **2015**, 26, 614-21	4.8	13

140	Defining the ischemic penumbra using hyperacute neuroimaging: deriving quantitative ischemic thresholds. *Translational Stroke Research*, **2012**, 3, 198-204	7.8	13
139	Submillimeter MR fingerprinting using deep learning-based tissue quantification. *Magnetic Resonance in Medicine*, **2020**, 84, 579-591	4.4	13
138	Ultra-Fast T2-Weighted MR Reconstruction Using Complementary T1-Weighted Information. *Lecture Notes in Computer Science*, **2018**, 11070, 215-223	0.9	13
137	Registration-Free Infant Cortical Surface Parcellation using Deep Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2018**, 11072, 672-680	0.9	13
136	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. *Human Brain Mapping*, **2017**, 38, 2865-2874	5.9	12
135	Construction of 4D infant cortical surface atlases with sharp folding patterns via spherical patch-based group-wise sparse representation. *Human Brain Mapping*, **2019**, 40, 3860-3880	5.9	12
134	Evaluation of PET/MRI for Tumor Volume Delineation for Head and Neck Cancer. *Frontiers in Oncology*, **2017**, 7, 8	5.3	12
133	Lateral ventricle morphology analysis via mean latitude axis. *Proceedings of SPIE*, **2013**, 8672,	1.7	12
132	Early changes of tissue perfusion after tissue plasminogen activator in hyperacute ischemic stroke. *Stroke*, **2011**, 42, 65-72	6.7	12
131	4D Infant Cortical Surface Atlas Construction using Spherical Patch-based Sparse Representation. *Lecture Notes in Computer Science*, **2017**, 10433, 57-65	0.9	12
130	Brain functional development separates into three distinct time periods in the first two years of life. *NeuroImage*, **2019**, 189, 715-726	7.9	12
129	Topological correction of infant white matter surfaces using anatomically constrained convolutional neural network. *NeuroImage*, **2019**, 198, 114-124	7.9	11
128	Scalable Joint Segmentation and Registration Framework for Infant Brain Images. *Neurocomputing*, **2017**, 229, 54-62	5.4	11
127	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4137-4149	11.7	11
126	Quantitative Comparison of Misregistration in Abdominal and Pelvic Organs Between PET/MRI and PET/CT: Effect of Mode of Acquisition and Type of Sequence on Different Organs. *American Journal of Roentgenology*, **2015**, 205, 1295-305	5.4	10
125	Discovering cortical sulcal folding patterns in neonates using large-scale dataset. *Human Brain Mapping*, **2018**, 39, 3625-3635	5.9	10
124	Clinically relevant reperfusion in acute ischemic stroke: MTT performs better than Tmax and TTP. *Translational Stroke Research*, **2014**, 5, 415-421	7.8	10
123	RCA-U-Net: Residual Channel Attention U-Net for Fast Tissue Quantification in Magnetic Resonance Fingerprinting. *Lecture Notes in Computer Science*, **2019**, 11766, 101-109	0.9	10

122	Prediction of Infant MRI Appearance and Anatomical Structure Evolution using Sparse Patch-based Metamorphosis Learning Framework. *Lecture Notes in Computer Science*, **2015**, 9467, 197-204	0.9	10
121	Initial assessment of 3D magnetic resonance fingerprinting (MRF) towards quantitative brain imaging for radiation therapy. *Medical Physics*, **2020**, 47, 1199-1214	4.4	10
120	Enhancement of Perivascular Spaces Using Densely Connected Deep Convolutional Neural Network. *IEEE Access*, **2019**, 7, 18382-18391	3.5	10
119	Three-dimensional time-of-flight MR angiography with variable TE (VARIETE) for fat signal reduction. *Magnetic Resonance in Medicine*, **1994**, 32, 678-83	4.4	9
118	Multivariate longitudinal shape analysis of human lateral ventricles during the first twenty-four months of life. *PLoS ONE*, **2014**, 9, e108306	3.7	9
117	Multi-atlas based simultaneous labeling of longitudinal dynamic cortical surfaces in infants. *Lecture Notes in Computer Science*, **2013**, 16, 58-65	0.9	9
116	Graph-Constrained Sparse Construction of Longitudinal Diffusion-Weighted Infant Atlases. *Lecture Notes in Computer Science*, **2017**, 10433, 49-56	0.9	9
115	Human milk 3′Sialyllactose is positively associated with language development during infancy. *American Journal of Clinical Nutrition*, **2021**, 114, 588-597	7	9
114	Multidirectional and Topography-based Dynamic-scale Varifold Representations with Application to Matching Developing Cortical Surfaces. *NeuroImage*, **2016**, 135, 152-62	7.9	9
113	Unpaired Deep Cross-Modality Synthesis with Fast Training. *Lecture Notes in Computer Science*, **2018**, 11045, 155-164	0.9	9
112	Spatio-angular consistent construction of neonatal diffusion MRI atlases. *Human Brain Mapping*, **2017**, 38, 3175-3189	5.9	8
111	Reperfusion Beyond 6 Hours Reduces Infarct Probability in Moderately Ischemic Brain Tissue. *Stroke*, **2016**, 47, 99-105	6.7	8
110	Hierarchical and symmetric infant image registration by robust longitudinal-example-guided correspondence detection. *Medical Physics*, **2015**, 42, 4174-89	4.4	8
109	MR imaging of oxygen extraction and neurovascular coupling. *Stroke*, **2013**, 44, S61-4	6.7	8
108	S3Reg: Superfast Spherical Surface Registration Based on Deep Learning. *IEEE Transactions on Medical Imaging*, **2021**, 40, 1964-1976	11.7	8
107	Probing Tissue Microarchitecture of the Baby Brain via Spherical Mean Spectrum Imaging. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3607-3618	11.7	7
106	Evidence-based neuroimaging in acute ischemic stroke. *Neuroimaging Clinics of North America*, **2003**, 13, 167-83	3	7
105	Segmentation of Infant Hippocampus Using Common Feature Representations Learned for Multimodal Longitudinal Data. *Lecture Notes in Computer Science*, **2015**, 9351, 63-71	0.9	7

104	Locality Adaptive Multi-modality GANs for High-Quality PET Image Synthesis. *Lecture Notes in Computer Science*, **2018**, 11070, 329-337	0.9	7
103	Surface-constrained volumetric registration for the early developing brain. *Medical Image Analysis*, **2019**, 58, 101540	15.4	6
102	XQ-SR: Joint x-q space super-resolution with application to infant diffusion MRI. *Medical Image Analysis*, **2019**, 57, 44-55	15.4	6
101	Estimating Tissue Microstructure with Undersampled Diffusion Data via Graph Convolutional Neural Networks. *Lecture Notes in Computer Science*, **2020**, 12267, 280-290	0.9	6
100	Quantification of measurement error in DTI: theoretical predictions and validation **2007**, 10, 10-7		6
99	Discovering Cortical Folding Patterns in Neonatal Cortical Surfaces Using Large-Scale Dataset. *Lecture Notes in Computer Science*, **2016**, 9900, 10-18	0.9	6
98	Biomechanical Analysis of Normal Brain Development during the First Year of Life Using Finite Strain Theory. *Scientific Reports*, **2016**, 6, 37666	4.9	6
97	Hippocampal Segmentation From Longitudinal Infant Brain MR Images via Classification-Guided Boundary Regression. *IEEE Access*, **2019**, 7, 33728-33740	3.5	5
96	Real-Time Quality Assessment of Pediatric MRI via Semi-Supervised Deep Nonlocal Residual Neural Networks. *IEEE Transactions on Image Processing*, **2020**,	8.7	5
95	TOWERS: T-One with Enhanced Robustness and Speed. *Magnetic Resonance in Medicine*, **2016**, 76, 118-26	4.4	5
94	Exploring Gyral Patterns of Infant Cortical Folding based on Multi-view Curvature Information. *Lecture Notes in Computer Science*, **2017**, 10433, 12-20	0.9	5
93	Rapid perfusion abnormality estimation in acute stroke with temporal correlation analysis. *Stroke*, **2003**, 34, 1686-92	6.7	5
92	Multi-task Learning for Neonatal Brain Segmentation Using 3D Dense-Unet with Dense Attention Guided by Geodesic Distance. *Lecture Notes in Computer Science*, **2019**, 11795, 243-251	0.9	5
91	CONSTRUCTION OF SPATIOTEMPORAL NEONATAL CORTICAL SURFACE ATLASES USING A LARGE-SCALE DATASET **2018**, 2018, 1056-1059	1.5	5
90	SPHERICAL U-NET FOR INFANT CORTICAL SURFACE PARCELLATION **2019**, 2019, 1882-1886	1.5	4
89	Spatio-Temporal Analysis of Early Brain Development. *Conference Record of the Asilomar Conference on Signals, Systems and Computers*, **2010**, 2010, 777-781	0.3	4
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