

Simon Keith Warfield

List of Publications by Year in descending order

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431
papers

24,597
citations

10986
71
h-index

9861
141
g-index

438
all docs

438
docs citations

438
times ranked

20796
citing authors

#	ARTICLE	IF	CITATIONS
1	Abnormal development of transient fetal zones in mild isolated fetal ventriculomegaly. Cerebral Cortex, 2023, 33, 1130-1139.	2.9	9
2	Reducing the Effects of Motion Artifacts in fMRI: A Structured Matrix Completion Approach. IEEE Transactions on Medical Imaging, 2022, 41, 172-185.	8.9	5
3	Super-resolution reconstruction of T2-weighted thick-slice neonatal brain MRI scans. Journal of Neuroimaging, 2022, 32, 68-79.	2.0	8
4	Self-supervised IVIM DWI parameter estimation with a physics based forward model. Magnetic Resonance in Medicine, 2022, 87, 904-914.	3.0	20
5	Scan-Specific Generative Neural Network for MRI Super-Resolution Reconstruction. IEEE Transactions on Medical Imaging, 2022, 41, 1383-1399.	8.9	15
6	Associations of body composition with regional brain volumes and white matter microstructure in very preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 533-538.	2.8	11
7	Fetal Brain Volume Predicts Neurodevelopment in Congenital Heart Disease. Circulation, 2022, 145, 1108-1119.	1.6	56
8	Normal Growth, Sexual Dimorphism, and Lateral Asymmetries at Fetal Brain MRI. Radiology, 2022, 303, 162-170.	7.3	24
9	Deep learning of birth-related infant clavicle fractures: a potential virtual consultant for fracture dating. Pediatric Radiology, 2022, 52, 2206-2214.	2.0	3
10	LGG-32. Integrated biologic, radiologic and clinical analysis of pediatric low-grade gliomas during and after targeted therapy treatment. Neuro-Oncology, 2022, 24, i95-i95.	1.2	0
11	Associations of Macronutrient Intake Determined by Point-of-Care Human Milk Analysis with Brain Development among very Preterm Infants. Children, 2022, 9, 969.	1.5	6
12	Diffusion-derived parameters in lesions, peri-lesion and normal-appearing white matter in multiple sclerosis using tensor, kurtosis and fixel-based analysis. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 2095-2106.	4.3	2
13	A structural brain network of genetic vulnerability to psychiatric illness. Molecular Psychiatry, 2021, 26, 2089-2100.	7.9	27
14	Regional Brain Growth Trajectories in Fetuses with Congenital Heart Disease. Annals of Neurology, 2021, 89, 143-157.	5.3	49
15	Dynamic distortion correction for functional MRI using FID navigators. Magnetic Resonance in Medicine, 2021, 85, 1294-1307.	3.0	16
16	Modeling dynamic radial contrast enhanced MRI with linear time invariant systems for motion correction in quantitative assessment of kidney function. Medical Image Analysis, 2021, 67, 101880.	11.6	7
17	Free induction decay navigator motion metrics for prediction of diagnostic image quality in pediatric MRI. Magnetic Resonance in Medicine, 2021, 85, 3169-3181.	3.0	2
18	Tractography of the Cerebellar Peduncles in Second- and Third-Trimester Fetuses. American Journal of Neuroradiology, 2021, 42, 194-200.	2.4	4

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19	Tuber Locations Associated with Infantile Spasms Map to a Common Brain Network. <i>Annals of Neurology</i> , 2021, 89, 726-739.	5.3	24
20	Magnetic Resonance Imaging (MRI) and Spectroscopy in Succinic Semialdehyde Dehydrogenase Deficiency. <i>Journal of Child Neurology</i> , 2021, 36, 1162-1168.	1.4	12
21	Free-breathing radial stack-of-stars three-dimensional Dixon gradient echo sequence in abdominal magnetic resonance imaging in sedated pediatric patients. <i>Pediatric Radiology</i> , 2021, 51, 1645-1653.	2.0	7
22	Association between Quantitative MR Markers of Cortical Evolving Organization and Gene Expression during Human Prenatal Brain Development. <i>Cerebral Cortex</i> , 2021, 31, 3610-3621.	2.9	11
23	Magic DIAMOND: Multi-fascicle diffusion compartment imaging with tensor distribution modeling and tensor-valued diffusion encoding. <i>Medical Image Analysis</i> , 2021, 70, 101988.	11.6	9
24	Physics-based iterative reconstruction for dual-source and flying focal spot computed tomography. <i>Medical Physics</i> , 2021, 48, 3595-3613.	3.0	2
25	Fast and High-Resolution Neonatal Brain MRI Through Super-Resolution Reconstruction From Acquisitions With Variable Slice Selection Direction. <i>Frontiers in Neuroscience</i> , 2021, 15, 636268.	2.8	13
26	Transfer learning in medical image segmentation: New insights from analysis of the dynamics of model parameters and learned representations. <i>Artificial Intelligence in Medicine</i> , 2021, 116, 102078.	6.5	66
27	Matched neurofeedback during fMRI differentially activates reward-related circuits in active and sham groups. <i>Journal of Neuroimaging</i> , 2021, 31, 947-955.	2.0	1
28	A machine learning-based method for estimating the number and orientations of major fascicles in diffusion-weighted magnetic resonance imaging. <i>Medical Image Analysis</i> , 2021, 72, 102129.	11.6	10
29	Spatiotemporal changes in diffusivity and anisotropy in fetal brain tractography. <i>Human Brain Mapping</i> , 2021, 42, 5771-5784.	3.6	14
30	Learning to estimate the fiber orientation distribution function from diffusion-weighted MRI. <i>NeuroImage</i> , 2021, 239, 118316.	4.2	17
31	Deep learning-based parameter estimation in fetal diffusion-weighted MRI. <i>NeuroImage</i> , 2021, 243, 118482.	4.2	22
32	MRI Super-Resolution Through Generative Degradation Learning. <i>Lecture Notes in Computer Science</i> , 2021, 12906, 430-440.	1.3	5
33	Retrospective Distortion and Motion Correction for Free-breathing DW-MRI of the Kidneys Using Dual-Echo EPI and Slice-to-Slice Volume Registration. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1432-1443.	3.4	6
34	Parent-reported measure of repetitive behavior in Phelan-McDermid syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2021, 13, 53.	3.1	6
35	Gradient-Guided Isotropic MRI Reconstruction From Anisotropic Acquisitions. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 1240-1253.	4.4	2
36	Quantitative In vivo MRI Assessment of Structural Asymmetries and Sexual Dimorphism of Transient Fetal Compartments in the Human Brain. <i>Cerebral Cortex</i> , 2020, 30, 1752-1767.	2.9	40

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37	Retrospective correction of head motion using measurements from an electromagnetic tracker. Magnetic Resonance in Medicine, 2020, 83, 427-437.	3.0	18
38	Rapid measurement and correction of spatiotemporal B_0 field changes using FID navigators and a multi-channel reference image. Magnetic Resonance in Medicine, 2020, 83, 575-589.	3.0	23
39	Bulk motion-compensated DCE-MRI for functional imaging of kidneys in newborns. Journal of Magnetic Resonance Imaging, 2020, 52, 207-216.	3.4	11
40	Lesion-Constrained Electrical Source Imaging. Journal of Clinical Neurophysiology, 2020, 37, 79-86.	1.7	3
41	The Connectivity Fingerprint of the Fusiform Gyrus Captures the Risk of Developing Autism in Infants with Tuberous Sclerosis Complex. Cerebral Cortex, 2020, 30, 2199-2214.	2.9	11
42	Feed and wrap magnetic resonance urography provides anatomic and functional imaging in infants without anesthesia. Journal of Pediatric Urology, 2020, 16, 116-120.	1.1	14
43	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128.	4.2	54
44	Association of Isolated Congenital Heart Disease with Fetal Brain Maturation. American Journal of Neuroradiology, 2020, 41, 1525-1531.	2.4	22
45	Dynamic Missing-Data Completion Reduces Leakage of Motion Artifact Caused by Temporal Filtering that Remains After Scrubbing. , 2020, , .		0
46	SLIMM: Slice localization integrated MRI monitoring. NeuroImage, 2020, 223, 117280.	4.2	6
47	In vivo characterization of emerging white matter microstructure in the fetal brain in the third trimester. Human Brain Mapping, 2020, 41, 3177-3185.	3.6	28
48	Simultaneous Motion and Distortion Correction Using Dual-Echo Diffusion-Weighted MRI. Journal of Neuroimaging, 2020, 30, 276-285.	2.0	9
49	Learning to Detect Brain Lesions from Noisy Annotations. , 2020, 2020, 1910-1914.		5
50	Pilot Study of Neurodevelopmental Impact of Early Epilepsy Surgery in Tuberous Sclerosis Complex. Pediatric Neurology, 2020, 109, 39-46.	2.1	23
51	Deep learning with noisy labels: Exploring techniques and remedies in medical image analysis. Medical Image Analysis, 2020, 65, 101759.	11.6	320
52	Spatiotemporal Differences in the Regional Cortical Plate and Subplate Volume Growth during Fetal Development. Cerebral Cortex, 2020, 30, 4438-4453.	2.9	22
53	Myofiber organization in the failing systemic right ventricle. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 49.	3.3	3
54	Diffusion Tensor Imaging Abnormalities in the Uncinate Fasciculus and Inferior Longitudinal Fasciculus in Phelan-McDermid Syndrome. Pediatric Neurology, 2020, 106, 24-31.	2.1	9

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55	Prospective pediatric study comparing glomerular filtration rate estimates based on motion-robust dynamic contrast-enhanced magnetic resonance imaging and serum creatinine (eGFR) to 99mTc DTPA. Pediatric Radiology, 2020, 50, 698-705.	2.0	10
56	In vivo characterization of emerging white matter microstructure in the fetal brain in the third trimester. , 2020, 41, 3177.		4
57	Learning a Gradient Guidance for Spatially Isotropic MRI Super-Resolution Reconstruction. Lecture Notes in Computer Science, 2020, 12262, 136-146.	1.3	13
58	A Flux-Conservative Finite Difference Scheme for Anisotropic Bioelectric Problems. , 2020, , 135-146.		2
59	Head motion measurement and correction using <scp>FID</scp> navigators. Magnetic Resonance in Medicine, 2019, 81, 258-274.	3.0	40
60	Changes in neonatal regional brain volume associated with preterm birth and perinatal factors. NeuroImage, 2019, 185, 654-663.	4.2	45
61	Biomechanical modeling and computer simulation of the brain during neurosurgery. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3250.	2.1	20
62	Reproducibility of Structural and Diffusion Tensor Imaging in the TACERN Multi-Center Study. Frontiers in Integrative Neuroscience, 2019, 13, 24.	2.1	32
63	Increased electroencephalography connectivity precedes epileptic spasm onset in infants with tuberous sclerosis complex. Epilepsia, 2019, 60, 1721-1732.	5.1	37
64	Resting-state fMRI Networks in Children with Tuberous Sclerosis Complex. Journal of Neuroimaging, 2019, 29, 750-759.	2.0	6
65	White matter mean diffusivity correlates with myelination in tuberous sclerosis complex. Annals of Clinical and Translational Neurology, 2019, 6, 1178-1190.	3.7	24
66	Motion-corrected foetal cardiac MRI. Nature Biomedical Engineering, 2019, 3, 852-854.	22.5	1
67	Extra-axonal restricted diffusion as an in-vivo marker of reactive microglia. Scientific Reports, 2019, 9, 13874.	3.3	10
68	Suite of meshless algorithms for accurate computation of soft tissue deformation for surgical simulation. Medical Image Analysis, 2019, 56, 152-171.	11.6	52
69	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. Mathematics and Visualization, 2019, , 217-224.	0.6	12
70	Perioperatively Inhaled Hydrogen Gas Diminishes Neurologic Injury Following Experimental Circulatory Arrest in Swine. JACC Basic To Translational Science, 2019, 4, 176-187.	4.1	15
71	Multi-Resolution Graph Based Volumetric Cortical Basis Functions From Local Anatomic Features. IEEE Transactions on Biomedical Engineering, 2019, 66, 3381-3392.	4.2	3
72	Tuberous Sclerosis Complex Genotypes and Developmental Phenotype. Pediatric Neurology, 2019, 96, 58-63.	2.1	21

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73	Intelligent Labeling Based on Fisher Information for Medical Image Segmentation Using Deep Learning. IEEE Transactions on Medical Imaging, 2019, 38, 2642-2653.	8.9	32
74	Impacting development in infants with tuberous sclerosis complex: Multidisciplinary research collaboration.. American Psychologist, 2019, 74, 356-367.	4.2	9
75	Deep Plug-and-Play Prior for Parallel MRI Reconstruction. , 2019, , .		8
76	Early white matter development is abnormal in tuberous sclerosis complex patients who develop autism spectrum disorder. Journal of Neurodevelopmental Disorders, 2019, 11, 36.	3.1	32
77	Fetal Echoplanar Imaging. Topics in Magnetic Resonance Imaging, 2019, 28, 245-254.	1.2	8
78	Fetal brain growth portrayed by a spatiotemporal diffusion tensor MRI atlas computed from in utero images. NeuroImage, 2019, 185, 593-608.	4.2	81
79	A registration method for improving quantitative assessment in probabilistic diffusion tractography. NeuroImage, 2019, 189, 288-306.	4.2	9
80	Motion-robust diffusion compartment imaging using simultaneous multi-slice acquisition. Magnetic Resonance in Medicine, 2019, 81, 3314-3329.	3.0	7
81	Asymmetric Loss Functions and Deep Densely-Connected Networks for Highly-Imbalanced Medical Image Segmentation: Application to Multiple Sclerosis Lesion Detection. IEEE Access, 2019, 7, 1721-1735.	4.2	120
82	Curved planar reformatting and convolutional neural network-based segmentation of the small bowel for visualization and quantitative assessment of pediatric Crohn's disease from MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 1565-1576.	3.4	20
83	Longitudinal Effects of Everolimus on White Matter Diffusion in Tuberous Sclerosis Complex. Pediatric Neurology, 2019, 90, 24-30.	2.1	21
84	Early-Emerging Sulcal Patterns Are Atypical in Fetuses with Congenital Heart Disease. Cerebral Cortex, 2019, 29, 3605-3616.	2.9	40
85	Volumetric Analysis of the Basal Ganglia and Cerebellar Structures in Patients with Phelan-McDermid Syndrome. Pediatric Neurology, 2019, 90, 37-43.	2.1	19
86	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. NeuroImage, 2019, 184, 964-980.	4.2	38
87	Isotropic MRI Super-Resolution Reconstruction with Multi-scale Gradient Field Prior. Lecture Notes in Computer Science, 2019, 11766, 3-11.	1.3	11
88	Biomechanical Modelling of the Brain for Neuronavigation in Epilepsy Surgery. Biological and Medical Physics Series, 2019, , 165-180.	0.4	0
89	Non-learning based deep parallel MRI reconstruction (NLDpMRI). , 2019, , .		3
90	Corpus Callosum White Matter Diffusivity Reflects Cumulative Neurological Comorbidity in Tuberous Sclerosis Complex. Cerebral Cortex, 2018, 28, 3665-3672.	2.9	25

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91	Cerebellar volume as an imaging marker of development in infants with tuberous sclerosis complex. <i>Neurology</i> , 2018, 90, e1493-e1500.	1.1	9
92	Fetal Neuropathology in Zika Virus-Infected Pregnant Female Rhesus Monkeys. <i>Cell</i> , 2018, 173, 1111-1122.e10.	28.9	104
93	Presurgical language fMRI: Clinical practices and patient outcomes in epilepsy surgical planning. <i>Human Brain Mapping</i> , 2018, 39, 2777-2785.	3.6	41
94	Assessing the validity of the approximation of diffusion-weighted MRI signals from crossing fascicles by sums of signals from single fascicles. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2332-2345.	3.0	18
95	Reproducibility of Brain MRI Segmentation Algorithms: Empirical Comparison of Local MAP PSTAPLE, FreeSurfer, and FSL-FIRST. <i>Journal of Neuroimaging</i> , 2018, 28, 162-172.	2.0	43
96	Missing Slice Recovery for Tensors Using a Low-Rank Model in Embedded Space. , 2018, , .		60
97	A Comparison of Point and Complete Electrode Models in a Finite Difference Model of Invasive Electrode Measurements. , 2018, 2018, 4677-4680.		2
98	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. <i>Scientific Reports</i> , 2018, 8, 13650.	3.3	171
99	Active Deep Learning with Fisher Information for Patch-Wise Semantic Segmentation. <i>Lecture Notes in Computer Science</i> , 2018, 11045, 83-91.	1.3	19
100	Tract-Specific Group Analysis in Fetal Cohorts Using in utero Diffusion Tensor Imaging. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 28-35.	1.3	3
101	Real-time automatic fetal brain extraction in fetal MRI by deep learning. , 2018, , .		50
102	Presurgical language fMRI: Technical practices in epilepsy surgical planning. <i>Human Brain Mapping</i> , 2018, 39, 4032-4042.	3.6	38
103	Automatic renal segmentation in DCE-MRI using convolutional neural networks. , 2018, 2018, 1534-1537.		32
104	Multi-compartment model of brain tissues from T2 relaxometry MRI using gamma distribution. , 2018, , .		4
105	Semi-automated Extraction of Crohns Disease MR Imaging Markers Using a 3D Residual CNN with Distance Prior. <i>Lecture Notes in Computer Science</i> , 2018, 11045, 218-226.	1.3	6
106	Differential Rates of Perinatal Maturation of Human Primary and Nonprimary Auditory Cortex. <i>ENeuro</i> , 2018, 5, ENEURO.0380-17.2017.	1.9	29
107	A Bayes Hilbert Space for Compartment Model Computing in Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2018, , 72-80.	1.3	0
108	Identification of Gadolinium Contrast Enhanced Regions in MS Lesions Using Brain Tissue Microstructure Information Obtained from Diffusion and T2 Relaxometry MRI. <i>Lecture Notes in Computer Science</i> , 2018, , 63-71.	1.3	1

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109	Longitudinal multiple sclerosis lesion segmentation: Resource and challenge. <i>NeuroImage</i> , 2017, 148, 77-102.	4.2	215
110	Block-Matching Distortion Correction of Echo-Planar Images With Opposite Phase Encoding Directions. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1106-1115.	8.9	26
111	A New Sparse Representation Framework for Reconstruction of an Isotropic High Spatial Resolution MR Volume From Orthogonal Anisotropic Resolution Scans. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1182-1193.	8.9	34
112	Reduced thalamic volume in patients with Electrical Status Epilepticus in Sleep. <i>Epilepsy Research</i> , 2017, 130, 74-80.	1.6	20
113	Heavy Prenatal Alcohol Exposure is Related to Smaller Corpus Callosum in Newborn <scp>MRI</scp> Scans. <i>Alcoholism: Clinical and Experimental Research</i> , 2017, 41, 965-975.	2.4	62
114	Automated template-based brain localization and extraction for fetal brain MRI reconstruction. <i>NeuroImage</i> , 2017, 155, 460-472.	4.2	31
115	Temporal slice registration and robust diffusion-tensor reconstruction for improved fetal brain structural connectivity analysis. <i>NeuroImage</i> , 2017, 156, 475-488.	4.2	54
116	Motion-robust parameter estimation in abdominal diffusion-weighted MRI by simultaneous image registration and model estimation. <i>Medical Image Analysis</i> , 2017, 39, 124-132.	11.6	20
117	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-€group comparison. <i>NMR in Biomedicine</i> , 2017, 30, e3734.	2.8	33
118	A normative spatiotemporal MRI atlas of the fetal brain for automatic segmentation and analysis of early brain growth. <i>Scientific Reports</i> , 2017, 7, 476.	3.3	217
119	Investigating the maturation of microstructure and radial orientation in the preterm human cortex with diffusion MRI. <i>NeuroImage</i> , 2017, 162, 65-72.	4.2	23
120	Presentation and Diagnosis of Tuberous Sclerosis Complex in Infants. <i>Pediatrics</i> , 2017, 140, .	2.1	90
121	White Matter Volume Predicts Language Development in Congenital Heart Disease. <i>Journal of Pediatrics</i> , 2017, 181, 42-48.e2.	1.8	52
122	A new neonatal cortical and subcortical brain atlas: the Melbourne Children's Regional Infant Brain (M-CRIB) atlas. <i>NeuroImage</i> , 2017, 147, 841-851.	4.2	74
123	Both 3-T dGEMRIC and Acetabular-Femoral T2 Difference May Detect Cartilage Damage at the Chondrolabral Junction. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 1058-1065.	1.5	17
124	Dynamic Electrical Source Imaging (DESI) of Seizures and Interictal Epileptic Discharges Without Ensemble Averaging. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 98-110.	8.9	5
125	Active delineation of Meyer's loop using oriented priors through MAGNETic tractography (MAGNET). <i>Human Brain Mapping</i> , 2017, 38, 509-527.	3.6	42
126	Localization of stereo-electroencephalography signals using a finite difference complete electrode model. , 2017, 2017, 3600-3603.		3

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127	Decoupling Axial and Radial Tissue Heterogeneity in Diffusion Compartment Imaging. Lecture Notes in Computer Science, 2017, , 440-452.	1.3	3
128	Motion-Robust Spatially Constrained Parameter Estimation in Renal Diffusion-Weighted MRI by 3D Motion Tracking and Correction of Sequential Slices. Lecture Notes in Computer Science, 2017, 10555, 75-85.	1.3	3
129	Fetal lung apparent diffusion coefficient measurement using diffusion-weighted MRI at 3 Tesla: Correlation with gestational age. Journal of Magnetic Resonance Imaging, 2016, 44, 1650-1655.	3.4	14
130	Fast myelin water fraction estimation using 2D multislice <scp>CPMG</scp>. Magnetic Resonance in Medicine, 2016, 76, 1301-1313.	3.0	18
131	Hippocampal Formation Maldevelopment and Sudden Unexpected Death across the Pediatric Age Spectrum. Journal of Neuropathology and Experimental Neurology, 2016, 75, 981-997.	1.7	42
132	Evaluation of motion and its effect on brain magnetic resonance image quality in children. Pediatric Radiology, 2016, 46, 1728-1735.	2.0	35
133	Evaluation of numerical techniques for solving the current injection problem in biological tissues. , 2016, 2016, 876-880.		7
134	Extensions to a manifold learning framework for time-series analysis on dynamic manifolds in bioelectric signals. Physical Review E, 2016, 93, 042218.	2.1	23
135	Motion-Robust Reconstruction Based on Simultaneous Multi-slice Registration for Diffusion-Weighted MRI of Moving Subjects. Lecture Notes in Computer Science, 2016, 9902, 544-552.	1.3	8
136	Characterizing brain tissue by assessment of the distribution of anisotropic microstructural environments in diffusion-compartment imaging (DIAMOND). Magnetic Resonance in Medicine, 2016, 76, 963-977.	3.0	90
137	3D Super-Resolution Motion-Corrected MRI: Validation of Fetal Posterior Fossa Measurements. Journal of Neuroimaging, 2016, 26, 539-544.	2.0	15
138	Motion-Robust Diffusion-Weighted Brain MRI Reconstruction Through Slice-Level Registration-Based Motion Tracking. IEEE Transactions on Medical Imaging, 2016, 35, 2258-2269.	8.9	30
139	Spatially-constrained probability distribution model of incoherent motion (SPIM) for abdominal diffusion-weighted MRI. Medical Image Analysis, 2016, 32, 173-183.	11.6	17
140	Altered Structural Brain Networks in Tuberous Sclerosis Complex. Cerebral Cortex, 2016, 26, 2046-2058.	2.9	36
141	Single Anisotropic 3-D MR Image Upsampling via Overcomplete Dictionary Trained From In-Plane High Resolution Slices. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1552-1561.	6.3	27
142	Planar dGEMRIC Maps May Aid Imaging Assessment of Cartilage Damage in Femoroacetabular Impingement. Clinical Orthopaedics and Related Research, 2016, 474, 467-478.	1.5	21
143	Comprehensive Maximum Likelihood Estimation of Diffusion Compartment Models Towards Reliable Mapping of Brain Microstructure. Lecture Notes in Computer Science, 2016, , 622-630.	1.3	4
144	Improved fidelity of brain microstructure mapping from single-shell diffusion MRI. Medical Image Analysis, 2015, 26, 268-286.	11.6	15

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145	Super-resolution reconstruction in frequency, image, and wavelet domains to reduce through-plane partial voluming in MRI. Medical Physics, 2015, 42, 6919-6932.	3.0	23
146	Normative biometrics for fetal ocular growth using volumetric MRI reconstruction. Prenatal Diagnosis, 2015, 35, 400-408.	2.3	22
147	Symmetric block-matching registration for the distortion correction of Echo-Planar images. , 2015, , .		0
148	A Model of Population and Subject (MOPS) Intensities With Application to Multiple Sclerosis Lesion Segmentation. IEEE Transactions on Medical Imaging, 2015, 34, 1349-1361.	8.9	55
149	Increased Brain Perfusion Persists over the First Month of Life in Term Asphyxiated Newborns Treated with Hypothermia: Does it Reflect Activated Angiogenesis?. Translational Stroke Research, 2015, 6, 224-233.	4.2	19
150	Structural and diffusion weighted MRI registration for biomarker fusion in Crohn's disease diagnosis. , 2015, , .		1
151	Optimized magnetic resonance diffusion protocol for ex-vivo whole human brain imaging with a clinical scanner. Proceedings of SPIE, 2015, , .	0.8	1
152	Tubers are neither static nor discrete. Neurology, 2015, 85, 1536-1545.	1.1	28
153	Combined delay and graph embedding of epileptic discharges in EEG reveals complex and recurrent nonlinear dynamics. , 2015, 2015, 347-350.		10
154	Spatially constrained incoherent motion method improves diffusion-weighted MRI signal decay analysis in the liver and spleen. Medical Physics, 2015, 42, 1895-1903.	3.0	21
155	Brain Perfusion Is Increased at Term in the White Matter of Very Preterm Newborns and Newborns with Congenital Heart Disease: Does this Reflect Activated Angiogenesis?. Neuropediatrics, 2015, 46, 344-351.	0.6	13
156	Motion Compensated Abdominal Diffusion Weighted MRI by Simultaneous Image Registration and Model Estimation (SIR-ME). Lecture Notes in Computer Science, 2015, 9351, 501-509.	1.3	5
157	Optimal MAP Parameters Estimation in STAPLE Using Local Intensity Similarity Information. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1589-1597.	6.3	4
158	A template-to-slice block matching approach for automatic localization of brain in fetal MRI. , 2015, , .		10
159	Multi-session complex averaging for high resolution high SNR 3T MR visualization of ex vivo hippocampus and insula. Proceedings of SPIE, 2015, , .	0.8	0
160	A Framework for the Analysis of Diffusion Compartment Imaging (DCI). Mathematics and Visualization, 2015, , 271-297.	0.6	2
161	Accelerated High Spatial Resolution Diffusion-Weighted Imaging. Lecture Notes in Computer Science, 2015, 24, 69-81.	1.3	7
162	Analytic Quantification of Bias and Variance of Coil Sensitivity Profile Estimators for Improved Image Reconstruction in MRI. Lecture Notes in Computer Science, 2015, 9350, 684-691.	1.3	3

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163	MR Microscopy for 3D Identification of Cortical Tubers, White Matter “Microtubers” and Radial Migration Lines in Ex Vivo Pediatric TSC with Epilepsy. FASEB Journal, 2015, 29, .	0.5	0
164	Localization of the Epileptogenic Foci in Tuberous Sclerosis Complex: A Pediatric Case Report. Frontiers in Human Neuroscience, 2014, 8, 175.	2.0	26
165	Construction of a Deformable Spatiotemporal MRI Atlas of the Fetal Brain: Evaluation of Similarity Metrics and Deformation Models. Lecture Notes in Computer Science, 2014, 17, 292-299.	1.3	32
166	More accurate neuronavigation data provided by biomechanical modeling instead of rigid registration. Journal of Neurosurgery, 2014, 120, 1477-1483.	1.6	37
167	Optimization of tractography of the optic radiations. Human Brain Mapping, 2014, 35, 683-697.	3.6	47
168	Passive fMRI mapping of language function for pediatric epilepsy surgical planning: Validation using Wada, ECS, and FMAER. Epilepsy Research, 2014, 108, 1874-1888.	1.6	30
169	The anatomy and art of writing a successful grant application: a practical step-by-step approach. Pediatric Radiology, 2014, 44, 1512-1517.	2.0	16
170	Electrode localization for planning surgical resection of the epileptogenic zone in pediatric epilepsy. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 91-105.	2.8	32
171	A collaborative resource to build consensus for automated left ventricular segmentation of cardiac MR images. Medical Image Analysis, 2014, 18, 50-62.	11.6	143
172	Regional white matter microstructure in very preterm infants: Predictors and 7 year outcomes. Cortex, 2014, 52, 60-74.	2.4	101
173	A Mathematical Framework for the Registration and Analysis of Multi-Fascicle Models for Population Studies of the Brain Microstructure. IEEE Transactions on Medical Imaging, 2014, 33, 504-517.	8.9	33
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