Greg Zaharchuk

List of Publications by Year
in descending order

176 papers	15,474 citations	36271 51 h-index	19726 117 g-index
178 all docs	178 docs citations	178 times ranked	16531 citing authors

#	Article	IF	Citations
1	Automated detection of arterial landmarks and vascular occlusions in patients with acute stroke receiving digital subtraction angiography using deep learning. Journal of NeuroInterventional Surgery, 2023, 15, 521-525.	2.0	4
2	Kidney Disease, Hypertension Treatment, and Cerebral Perfusion and Structure. American Journal of Kidney Diseases, 2022, 79, 677-687.e1.	2.1	2
3	Reproducibility of cerebrovascular reactivity measurements: A systematic review of neuroimaging techniques[*]. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 700-717.	2.4	9
4	Clinical Assessment of Deep Learningâ€“based Super-Resolution for 3D Volumetric Brain MRI. Radiology: Artificial Intelligence, 2022, 4, e210059.	3.0	19
5	Investigating Simultaneity for Deep Learningâ€“Enhanced Actual Ultra-Low-Dose Amyloid PET/MR Imaging. American Journal of Neuroradiology, 2022, 43, 354-360.	1.2	1
6	¹⁸F-FSPG PET/CT Imaging of System x_C^{â€“} Transporter Activity in Patients with Primary and Metastatic Brain Tumors. Radiology, 2022, 303, 620-631.	3.6	7
7	Using arterial spin labeling to measure cerebrovascular reactivity in Moyamoya disease: Insights from simultaneous PET/MRI. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1493-1506.	2.4	15
8	Confirming Pathogenicity of the F386L PSEN1 Variant in a South Asian Family With Early-Onset Alzheimer Disease. Neurology: Genetics, 2022, 8, e647.	0.9	0
9	Magnetic Resonance Imaging as an Alternative to <scp>Contrastâ€Enhanced</scp> Computed Tomography to Mitigate Iodinated Contrast Shortages in the United States: Recommendations From the International Society for Magnetic Resonance in Medicine. Journal of Magnetic Resonance Imaging, 2022, 56, 655-656.	1.9	4
10	Image synthesis for low-count PET acquisitions: lower dose, shorter time. , 2022, , 369-391.		0
11	Velocityâ€selective arterial spin labeling perfusion MRI: A review of the state of the art and recommendations for clinical implementation. Magnetic Resonance in Medicine, 2022, 88, 1528-1547.	1.9	27
12	Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2233-2244.	3.3	37
13	Artificial Intelligence for Optimization and Interpretation of PET/CT and PET/MR Images. Seminars in Nuclear Medicine, 2021, 51, 134-142.	2.5	23
14	COVID-19-induced anosmia associated with olfactory bulb atrophy. Neuroradiology, 2021, 63, 147-148.	1.1	70
15	True ultra-low-dose amyloid PET/MRI enhanced with deep learning for clinical interpretation. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2416-2425.	3.3	27
16	Representation Disentanglement for Multi-modal Brain MRI Analysis. Lecture Notes in Computer Science, 2021, 12729, 321-333.	1.0	17
17	Handling missing MRI sequences in deep learning segmentation of brain metastases: a multicenter study. Npj Digital Medicine, 2021, 4, 33.	5.7	31
18	Altered cerebral perfusion in response to chronic mild hypercapnia and head-down tilt Bed rest as an analog for Spaceflight. Neuroradiology, 2021, 63, 1271-1281.	1.1	11

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19	Deep learningâ€“based methods may minimize GBCA dosage in brain MRI. European Radiology, 2021, 31, 6419-6428.	2.3	23
20	Tissue at Risk and Ischemic Core Estimation Using Deep Learning in Acute Stroke. American Journal of Neuroradiology, 2021, 42, 1030-1037.	1.2	20
21	A generic deep learning model for reduced gadolinium dose in contrastâ€enhanced brain MRI. Magnetic Resonance in Medicine, 2021, 86, 1687-1700.	1.9	30
22	Optimizing the frame duration for dataâ€driven rigid motion estimation in brain PET imaging. Medical Physics, 2021, 48, 3031-3041.	1.6	9
23	The bright vessel sign on arterial spin labeling MRI for heralding and localizing large vessel occlusions. Journal of Neuroimaging, 2021, 31, 925-930.	1.0	2
24	Cerebrovascular reactivity measurements using simultaneous 15O-water PET and ASL MRI: Impacts of arterial transit time, labeling efficiency, and hematocrit. NeuroImage, 2021, 233, 117955.	2.1	28
25	Predicting Infarct Core From Computed Tomography Perfusion in Acute Ischemia With Machine Learning: Lessons From the ISLES Challenge. Stroke, 2021, 52, 2328-2337.	1.0	41
26	Improving Ischemic Stroke Care With MRI and Deep Learning Artificial Intelligence. Topics in Magnetic Resonance Imaging, 2021, 30, 187-195.	0.7	12
27	Low-count whole-body PET with deep learning in a multicenter and externally validated study. Npj Digital Medicine, 2021, 4, 127.	5.7	34
28	MRI pulse sequence integration for deepâ€learningâ€based brain metastases segmentation. Medical Physics, 2021, 48, 6020-6035.	1.6	6
29	Prediction of Clinical Outcome in Patients with Large-Vessel Acute Ischemic Stroke: Performance of Machine Learning versus SPAN-100. American Journal of Neuroradiology, 2021, 42, 240-246.	1.2	16
30	Predicting future amyloid biomarkers in dementia patients with machine learning to improve clinical trial patient selection. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12212.	1.8	9
31	Reliability of arterial spin labeling derived cerebral blood flow in periventricular white matter. NeuroImage Reports, 2021, 1, 100063.	0.5	9
32	Deep Learning Enables 60% Accelerated Volumetric Brain MRI While Preserving Quantitative Performance: A Prospective, Multicenter, Multireader Trial. American Journal of Neuroradiology, 2021, 42, 2130-2137.	1.2	25
33	Elevated brain oxygen extraction fraction measured by MRI susceptibility relates to perfusion status in acute ischemic stroke. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 539-551.	2.4	51
34	Deep learning enables automatic detection and segmentation of brain metastases on multisequence MRI. Journal of Magnetic Resonance Imaging, 2020, 51, 175-182.	1.9	153
35	Simultaneous phaseâ€contrast MRI and PET for noninvasive quantification of cerebral blood flow and reactivity in healthy subjects and patients with cerebrovascular disease. Journal of Magnetic Resonance Imaging, 2020, 51, 183-194.	1.9	21
36	Identifying cardiovascular risk factors that impact cerebrovascular reactivity: An ASL MRI study. Journal of Magnetic Resonance Imaging, 2020, 51, 734-747.	1.9	8

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37	MRI safety and devices: An update and expert consensus. Journal of Magnetic Resonance Imaging, 2020, 51, 657-674.	1.9	37
38	Predicting ¹⁵O-Water PET cerebral blood flow maps from multi-contrast MRI using a deep convolutional neural network with evaluation of training cohort bias. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2240-2253.	2.4	30
39	Deep Learning Detection of Penumbral Tissue on Arterial Spin Labeling in Stroke. Stroke, 2020, 51, 489-497.	1.0	39
40	Predicting PET Cerebrovascular Reserve with Deep Learning by Using Baseline MRI: A Pilot Investigation of a Drug-Free Brain Stress Test. Radiology, 2020, 296, 627-637.	3.6	24
41	Artificial Intelligence Applications in Stroke. Stroke, 2020, 51, 2573-2579.	1.0	65
42	Simultaneous FDG-PET/MRI detects hippocampal subfield metabolic differences in AD/MCI. Scientific Reports, 2020, 10, 12064.	1.6	12
43	Arterial Transit Awesomeness. Radiology, 2020, 297, 661-662.	3.6	8
44	Collateral status contributes to differences between observed and predicted 24-h infarct volumes in DEFUSE 3. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1966-1974.	2.4	53
45	Deep flow-net for EPI distortion estimation. NeuroImage, 2020, 217, 116886.	2.1	9
46	Generalization of deep learning models for ultra-low-count amyloid PET/MRI using transfer learning. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2998-3007.	3.3	29
47	Application of Deep Learning to Predict Standardized Uptake Value Ratio and Amyloid Status on ¹⁸F-Florbetapir PET Using ADNI Data. American Journal of Neuroradiology, 2020, 41, 980-986.	1.2	19
48	Quantification of brain oxygen extraction and metabolism with [15O]-gas PET: A technical review in the era of PET/MRI. NeuroImage, 2020, 220, 117136.	2.1	36
49	Use of Deep Learning to Predict Final Ischemic Stroke Lesions From Initial Magnetic Resonance Imaging. JAMA Network Open, 2020, 3, e200772.	2.8	98
50	Fellow in a Box: Combining AI and Domain Knowledge with Bayesian Networks for Differential Diagnosis in Neuroimaging. Radiology, 2020, 295, 638-639.	3.6	6
51	Synthesize High-Quality Multi-Contrast Magnetic Resonance Imaging From Multi-Echo Acquisition Using Multi-Task Deep Generative Model. IEEE Transactions on Medical Imaging, 2020, 39, 3089-3099.	5.4	31
52	Artificial Intelligence in Neuroradiology: Current Status and Future Directions. American Journal of Neuroradiology, 2020, 41, E52-E59.	1.2	14
53	Deep Generative Adversarial Neural Networks for Compressive Sensing MRI. IEEE Transactions on Medical Imaging, 2019, 38, 167-179.	5.4	373
54	Applications of Deep Learning to Neuro-Imaging Techniques. Frontiers in Neurology, 2019, 10, 869.	1.1	97

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55	Next generation research applications for hybrid PET/MR and PET/CT imaging using deep learning. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2700-2707.	3.3	44
56	Contralateral Hemispheric Cerebral Blood Flow Measured With Arterial Spin Labeling Can Predict Outcome in Acute Stroke. Stroke, 2019, 50, 3408-3415.	1.0	26
57	Ultraâ€lowâ€dose PET reconstruction using generative adversarial network with feature matching and taskâ€specific perceptual loss. Medical Physics, 2019, 46, 3555-3564.	1.6	121
58	Ischemic Core and Hypoperfusion Volumes Correlate With Infarct Size 24 Hours After Randomization in DEFUSE 3. Stroke, 2019, 50, 626-631.	1.0	43
59	Identifying Hypoperfusion in Moyamoya Disease With Arterial Spin Labeling and an [¹⁵ O]-Water Positron Emission Tomography/Magnetic Resonance Imaging Normative Database. Stroke, 2019, 50, 373-380.	1.0	38
60	Use of Gradient Boosting Machine Learning to Predict Patient Outcome in Acute Ischemic Stroke on the Basis of Imaging, Demographic, and Clinical Information. American Journal of Roentgenology, 2019, 212, 44-51.	1.0	75
61	Ultraâ€“Low-Dose¹⁸F-Florbetaben Amyloid PET Imaging Using Deep Learning with Multi-Contrast MRI Inputs. Radiology, 2019, 290, 649-656.	3.6	182
62	Advantages of short repetition time resting-state functional MRI enabled by simultaneous multi-slice imaging. Journal of Neuroscience Methods, 2019, 311, 122-132.	1.3	25
63	Deep learning enables reduced gadolinium dose for contrastâ€enhanced brain MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 330-340.	1.9	220
64	Reduced Intravoxel Incoherent Motion Microvascular Perfusion Predicts Delayed Cerebral Ischemia and Vasospasm After Aneurysm Rupture. Stroke, 2018, 49, 741-745.	1.0	16
65	Deep Learning in Neuroradiology. American Journal of Neuroradiology, 2018, 39, 1776-1784.	1.2	222
66	Resting-State Functional MRI: Everything That Nonexperts Have Always Wanted to Know. American Journal of Neuroradiology, 2018, 39, 1390-1399.	1.2	266
67	Thrombectomy for Stroke at 6 to 16 Hours with Selection by Perfusion Imaging. New England Journal of Medicine, 2018, 378, 708-718.	13.9	3,433
68	Arterial Spin-Labeling Improves Detection of Intracranial Dural Arteriovenous Fistulas with MRI. American Journal of Neuroradiology, 2018, 39, 669-677.	1.2	37
69	Image-derived input function estimation on a TOF-enabled PET/MR for cerebral blood flow mapping. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 126-135.	2.4	49
70	Clinical and Arterial Spin Labeling Brain MRI Features of Transitional Venous Anomalies. Journal of Neuroimaging, 2018, 28, 289-300.	1.0	9
71	Clinical Evaluation of Silent T1-Weighted MRI and Silent MR Angiography of the Brain. American Journal of Roentgenology, 2018, 210, 404-411.	1.0	35
72	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.	2.4	48

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73	Comparing accuracy and reproducibility of sequential and Hadamardâ€encoded multidelay pseudocontinuous arterial spin labeling for measuring cerebral blood flow and arterial transit time in healthy subjects: A simulation and in vivo study. Journal of Magnetic Resonance Imaging, 2018, 47, 1119-1132.	1.9	25
74	Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: a concurrent 11C-raclopride positron emission tomography and functional magnetic resonance imaging investigation. Translational Psychiatry, 2018, 8, 264.	2.4	44
75	Advanced Neuroimaging of Acute Ischemic Stroke. Neuroimaging Clinics of North America, 2018, 28, 585-597.	0.5	38
76	ISLES 2016 and 2017-Benchmarking Ischemic Stroke Lesion Outcome Prediction Based on Multispectral MRI. Frontiers in Neurology, 2018, 9, 679.	1.1	117
77	Revealing subâ€voxel motions of brain tissue using phaseâ€based amplified MRI (aMRI). Magnetic Resonance in Medicine, 2018, 80, 2549-2559.	1.9	61
78	Hypoxia Detection in Infiltrative Astrocytoma: Ferumoxytol-based Quantitative BOLD MRI with Intraoperative and Histologic Validation. Radiology, 2018, 288, 821-829.	3.6	11
79	Quantitative susceptibility mapping using deep neural network: QSMnet. NeuroImage, 2018, 179, 199-206.	2.1	115
80	Evaluation of Thick-Slab Overlapping MIP Images of Contrast-Enhanced 3D T1-Weighted CUBE for Detection of Intracranial Metastases: A Pilot Study for Comparison of Lesion Detection, Interpretation Time, and Sensitivity with Nonoverlapping CUBE MIP, CUBE, and Inversion-Recovery-Prepared Fast-Spoiled Gradient Recalled Brain Volume. American Journal of Neuroradiology, 2018, 39, 1635-1642.	1.2	12
81	The vast potential and bright future of neuroimaging. British Journal of Radiology, 2018, 91, 20170505.	1.0	8
82	Erroneous Resting-State fMRI Connectivity Maps Due to Prolonged Arterial Arrival Time and How to Fix Them. Brain Connectivity, 2018, 8, 362-370.	0.8	19
83	Imaging of cerebrovascular reserve and oxygenation in Moyamoya disease. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1213-1222.	2.4	24
84	Resting-State BOLD MRI for Perfusion and Ischemia. Topics in Magnetic Resonance Imaging, 2017, 26, 91-96.	0.7	24
85	Computed tomographic perfusion to Predict Response to Recanalization in ischemic stroke. Annals of Neurology, 2017, 81, 849-856.	2.8	110
86	Cerebral blood flow, transit time, and apparent diffusion coefficient in moyamoya disease before and after acetazolamide. Neuroradiology, 2017, 59, 5-12.	1.1	37
87	Biodistribution and Radiation Dosimetry of ¹⁸F-FTC-146 in Humans. Journal of Nuclear Medicine, 2017, 58, 2004-2009.	2.8	34
88	Clinical evaluation of TOF versus non-TOF on PET artifacts in simultaneous PET/MR: a dual centre experience. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1223-1233.	3.3	20
89	Benchmarking transverse spin relaxation based oxygenation measurements in the brain during hypercapnia and hypoxia. Journal of Magnetic Resonance Imaging, 2017, 46, 704-714.	1.9	1
90	Long-Delay Arterial Spin Labeling Provides More Accurate Cerebral Blood Flow Measurements in Moyamoya Patients. Stroke, 2017, 48, 2441-2449.	1.0	86

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91	Semiquantitative Assessment of ¹⁸F-FDG Uptake in the Normal Skeleton: Comparison Between PET/CT and Time-of-Flight Simultaneous PET/MRI. American Journal of Roentgenology, 2017, 209, 1136-1142.	1.0	4
92	Comparison of stroke volume evolution on diffusion-weighted imaging and fluid-attenuated inversion recovery following endovascular thrombectomy. International Journal of Stroke, 2017, 12, 510-518.	2.9	14
93	Measuring vascular reactivity with resting-state blood oxygenation level-dependent (BOLD) signal fluctuations: A potential alternative to the breath-holding challenge?. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2526-2538.	2.4	48
94	Non-Invasive Placental Perfusion Imaging in Pregnancies Complicated by Fetal Heart Disease Using Velocity-Selective Arterial Spin Labeled MRI. Scientific Reports, 2017, 7, 16126.	1.6	56
95	Conspicuity of Malignant Lesions on PET/CT and Simultaneous Time-Of-Flight PET/MRI. PLoS ONE, 2017, 12, e0167262.	1.1	3
96	Evaluation of Zero-TE-based attenuation correction methods on PET quantification of PET/MRI head and neck lesions. , 2016, , .		1
97	Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials. Stroke, 2016, 47, 1389-1398.	1.0	88
98	Non-Relative Value Unit-Generating Activities Represent One-Fifth of Academic Neuroradiologist Productivity. American Journal of Neuroradiology, 2016, 37, 1206-1208.	1.2	8
99	Arterial Spin Labeling Perfusion of the Brain: Emerging Clinical Applications. Radiology, 2016, 281, 337-356.	3.6	360
100	Evaluation of diagnostic accuracy in CT perfusion analysis in moyamoya disease. Japanese Journal of Radiology, 2016, 34, 28-34.	1.0	1
101	Amplified magnetic resonance imaging (aMRI). Magnetic Resonance in Medicine, 2016, 75, 2245-2254.	1.9	32
102	Comparison of cerebral blood flow measurement with [¹⁵O]-water positron emission tomography and arterial spin labeling magnetic resonance imaging: A systematic review. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 842-861.	2.4	125
103	Acute Preoperative Infarcts and Poor Cerebrovascular Reserve Are Independent Risk Factors for Severe Ischemic Complications following Direct Extracranial-Intracranial Bypass for Moyamoya Disease. American Journal of Neuroradiology, 2016, 37, 228-235.	1.2	31
104	Chronic kidney disease, cerebral blood flow, and white matter volume in hypertensive adults. Neurology, 2016, 86, 1208-1216.	1.5	48
105	Evolution of Volume and Signal Intensity on Fluid-attenuated Inversion Recovery MR Images after Endovascular Stroke Therapy. Radiology, 2016, 280, 184-192.	3.6	32
106	Improvements in PET Image Quality in Time of Flight (TOF) Simultaneous PET/MRI. Molecular Imaging and Biology, 2016, 18, 776-781.	1.3	26
107	Monitoring Cerebrovascular Reactivity through the Use of Arterial Spin Labeling in Patients with Moyamoya Disease. Radiology, 2016, 278, 205-213.	3.6	40
108	The Growth Rate of Early DWI Lesions is Highly Variable and Associated with Penumbral Salvage and Clinical Outcomes following Endovascular Reperfusion. International Journal of Stroke, 2015, 10, 723-729.	2.9	140

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109	Noncontrast mapping of arterial delay and functional connectivity using restingâ€state functional MRI: A study in Moyamoya patients. Journal of Magnetic Resonance Imaging, 2015, 41, 424-430.	1.9	88
110	Improved multislice perfusion imaging with velocity-selective arterial spin labeling. Journal of Magnetic Resonance Imaging, 2015, 41, 1422-1431.	1.9	4
111	Yield of CT perfusion for the evaluation of transient ischaemic attack. International Journal of Stroke, 2015, 10, 25-29.	2.9	6
112	Comparison of R2â€² measurement methods in the normal brain at 3 tesla. Magnetic Resonance in Medicine, 2015, 73, 1228-1236.	1.9	35
113	Recommended implementation of arterial spinâ€labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, spcone.	1.9	19
114	Recommended implementation of arterial spinâ€labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, 102-116.	1.9	1,663
115	Cerebral Blood Flow Changes in Glioblastoma Patients Undergoing Bevacizumab Treatment Are Seen in Both Tumor and Normal Brain. Neuroradiology Journal, 2015, 28, 112-119.	0.6	19
116	Arterial spin labeling MRI: Clinical applications in the brain. Journal of Magnetic Resonance Imaging, 2015, 41, 1165-1180.	1.9	163
117	Simultaneous Whole-Body Time-of-Flight 18F-FDG PET/MRI. Clinical Nuclear Medicine, 2015, 40, 1-8.	0.7	70
118	TIA Triage in Emergency Department Using Acute MRI (TIA-TEAM): A Feasibility and Safety Study. International Journal of Stroke, 2015, 10, 343-347.	2.9	21
119	Association of Developmental Venous Anomalies with Perfusion Abnormalities on Arterial Spin Labeling and Bolus Perfusionâ€Weighted Imaging. Journal of Neuroimaging, 2015, 25, 243-250.	1.0	45
120	Whole-body simultaneous time-of-flight PET-MRI: early experience with clinical studies. EJNMMI Physics, 2015, 2, A64.	1.3	0
121	Response to endovascular reperfusion is not time-dependent in patients with salvageable tissue. Neurology, 2015, 85, 708-714.	1.5	87
122	Glioblastoma Multiforme Recurrence: An Exploratory Study of18F FPPRGD2PET/CT. Radiology, 2015, 277, 497-506.	3.6	49
123	Effect of Collateral Blood Flow on Patients Undergoing Endovascular Therapy for Acute Ischemic Stroke. Stroke, 2014, 45, 1035-1039.	1.0	141
124	Pseudocontinuous arterial spin labeling with prospective motion correction (PCASL-PROMO). Magnetic Resonance in Medicine, 2014, 72, 1049-1056.	1.9	22
125	Assessment and modulation of resting-state neural networks after stroke. Current Opinion in Neurology, 2014, 27, 637-643.	1.8	38
126	Arterial Spinâ€“Labeled Perfusion Imaging in Acute Ischemic Stroke. Stroke, 2014, 45, 1202-1207.	1.0	59

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127	Early Diffusion-Weighted Imaging Reversal After Endovascular Reperfusion Is Typically Transient in Patients Imaged 3 to 6 Hours After Onset. Stroke, 2014, 45, 1024-1028.	1.0	84
128	Correlation of AOL recanalization, TIMI reperfusion and TICI reperfusion with infarct growth and clinical outcome. Journal of NeuroInterventional Surgery, 2014, 6, 724-728.	2.0	60
129	Ultrahigh-Resolution Imaging of the Human Brain with Phase-Cycled Balanced Steady-State Free Precession at 7 T. Investigative Radiology, 2014, 49, 278-289.	3.5	21
130	Multimodality Evaluation of Dural Arteriovenous Fistula with CT Angiography, MR with Arterial Spin Labeling, and Digital Subtraction Angiography: Case Report. Journal of Neuroimaging, 2014, 24, 520-523.	1.0	8
131	Nearâ€contiguous spin echo imaging using matchedâ€phase RF and its application in velocityâ€selective arterial spin labeling. Magnetic Resonance in Medicine, 2014, 71, 2043-2050.	1.9	7
132	Glioblastoma Multiforme: Exploratory Radiogenomic Analysis by Using Quantitative Image Features. Radiology, 2014, 273, 168-174.	3.6	265
133	Angiographic Outcome of Endovascular Stroke Therapy Correlated with MR Findings, Infarct Growth, and Clinical Outcome in the DEFUSE 2 Trial. International Journal of Stroke, 2014, 9, 860-865.	2.9	32
134	Spontaneous BOLD Signal Fluctuations in Young Healthy Subjects and Elderly Patients with Chronic Kidney Disease. PLoS ONE, 2014, 9, e92539.	1.1	31
135	Early Diffusion-Weighted Imaging and Perfusion-Weighted Imaging Lesion Volumes Forecast Final Infarct Size in DEFUSE 2. Stroke, 2013, 44, 681-685.	1.0	106
136	High-resolution cerebral blood volume imaging in humans using the blood pool contrast agent ferumoxytol. Magnetic Resonance in Medicine, 2013, 70, 705-710.	1.9	52
137	Acute Stroke Imaging Research Roadmap II. Stroke, 2013, 44, 2628-2639.	1.0	192
138	Simultaneous Perfusion and Permeability Measurements Using Combined Spin- and Gradient-Echo MRI. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 732-743.	2.4	49
139	Is T2* Enough to Assess Oxygenation? Quantitative Blood Oxygen Levelâ€"Dependent Analysis in Brain Tumor. Radiology, 2012, 262, 495-502.	3.6	72
140	Comparison of Arterial Spin Labeling and Bolus Perfusion-Weighted Imaging for Detecting Mismatch in Acute Stroke. Stroke, 2012, 43, 1843-1848.	1.0	83
141	Arterial Spin Labeling Imaging Findings in Transient Ischemic Attack Patients: Comparison with Diffusion- and Bolus Perfusion-Weighted Imaging. Cerebrovascular Diseases, 2012, 34, 221-228.	0.8	46
142	Better Late than Never. Stroke, 2012, 43, 931-932.	1.0	10
143	Automated Perfusion Imaging for the Evaluation of Transient Ischemic Attack. Stroke, 2012, 43, 1556-1560.	1.0	41
144	Patients With the Malignant Profile Within 3 Hours of Symptom Onset Have Very Poor Outcomes After Intravenous Tissue-Type Plasminogen Activator Therapy. Stroke, 2012, 43, 2494-2496.	1.0	46

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145	MRI profile and response to endovascular reperfusion after stroke (DEFUSE 2): a prospective cohort study. Lancet Neurology, The, 2012, 11, 860-867.	4.9	718
146	Contrast-enhanced functional blood volume imaging (CE-fBVI): Enhanced sensitivity for brain activation in humans using the ultrasmall superparamagnetic iron oxide agent ferumoxytol. NeuroImage, 2012, 62, 1726-1731.	2.1	53
147	CBF measurements using multidelay pseudocontinuous and velocityâ€selective arterial spin labeling in patients with long arterial transit delays: Comparison with xenon CT CBF. Journal of Magnetic Resonance Imaging, 2012, 36, 110-119.	1.9	78
148	Quantitative MR estimates of blood oxygenation based on T₂*: A numerical study of the impact of model assumptions. Magnetic Resonance in Medicine, 2012, 67, 1458-1468.	1.9	29
149	Combined spinâ€and gradientâ€echo perfusionâ€weighted imaging. Magnetic Resonance in Medicine, 2012, 68, 30-40.	1.9	91
150	Measuring brain oxygenation in humans using a multiparametric quantitative blood oxygenation level dependent MRI approach. Magnetic Resonance in Medicine, 2012, 68, 905-911.	1.9	61
151	Arterial Spin Labeling for Acute Stroke: Practical Considerations. Translational Stroke Research, 2012, 3, 228-235.	2.3	29
152	Abstract 52: Results of DEFUSE 2: Imaging Endpoints. Stroke, 2012, 43, .	1.0	5
153	Abstract 135: Correlation of TICI Reperfusion with MR Reperfusion, Infarct Growth and Clinical Outcome in the DEFUSE 2 Trial. Stroke, 2012, 43, .	1.0	0
154	Abstract 53: The Malignant MRI profile: Implications for Endovascular Therapy. Stroke, 2012, 43, .	1.0	0
155	Abstract 73: Results of DEFUSE 2: Clinical Endpoints. Stroke, 2012, 43, .	1.0	4
156	Arterial Spin Label Imaging of Acute Ischemic Stroke and Transient Ischemic Attack. Neuroimaging Clinics of North America, 2011, 21, 285-301.	0.5	61
157	MR-Guided Unfocused Ultrasound Disruption of the Rat Blood-Brain Barrier. , 2011, , .		0
158	Comparison of MR and Contrast Venography of the Cervical Venous System in Multiple Sclerosis. American Journal of Neuroradiology, 2011, 32, 1482-1489.	1.2	46
159	Reduced Field-of-View Diffusion Imaging of the Human Spinal Cord: Comparison with Conventional Single-Shot Echo-Planar Imaging. American Journal of Neuroradiology, 2011, 32, 813-820.	1.2	83
160	Arterial Spin-Labeling MRI Can Identify the Presence and Intensity of Collateral Perfusion in Patients With Moyamoya Disease. Stroke, 2011, 42, 2485-2491.	1.0	205
161	Combined arterial spin label and dynamic susceptibility contrast measurement of cerebral blood flow. Magnetic Resonance in Medicine, 2010, 63, 1548-1556.	1.9	54
162	Arterial Spin-Label Imaging in Patients with Normal Bolus Perfusion-weighted MR Imaging Findings: Pilot Identification of the Borderzone Sign. Radiology, 2009, 252, 797-807.	3.6	83

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163	Improving dynamic susceptibility contrast MRI measurement of quantitative cerebral blood flow using corrections for partial volume and nonlinear contrast relaxivity: A xenon computed tomographic comparative study. Journal of Magnetic Resonance Imaging, 2009, 30, 743-752.	1.9	30
164	Urinary Oxygen Tension Measurement in Humans Using Magnetic Resonance Imaging. Academic Radiology, 2008, 15, 1467-1473.	1.3	26
165	Noninvasive Imaging of Quantitative Cerebral Blood Flow Changes during 100% Oxygen Inhalation Using Arterial Spin-Labeling MR Imaging. American Journal of Neuroradiology, 2008, 29, 663-667.	1.2	37
166	Theoretical Basis of Hemodynamic MR Imaging Techniques to Measure Cerebral Blood Volume, Cerebral Blood Flow, and Permeability. American Journal of Neuroradiology, 2007, 28, 1850-1858.	1.2	115
167	Noninvasive Oxygen Partial Pressure Measurement of Human Body Fluids In Vivo Using Magnetic Resonance Imaging. Academic Radiology, 2006, 13, 1016-1024.	1.3	68
168	Comparative Overview of Brain Perfusion Imaging Techniques. Stroke, 2005, 36, e83-99.	1.0	397
169	Is All Perfusion-Weighted Magnetic Resonance Imaging for Stroke Equal? The Temporal Evolution of Multiple Hemodynamic Parameters After Focal Ischemia in Rats Correlated With Evidence of Infarction. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1341-1351.	2.4	45
170	Evidence of a Cerebrovascular Postarteriole Windkessel with Delayed Compliance. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 679-689.	2.4	480
171	Multislice perfusion and perfusion territory imaging in humans with separate label and image coils. Magnetic Resonance in Medicine, 1999, 41, 1093-1098.	1.9	135
172	Cerebrovascular Dynamics of Autoregulation and Hypoperfusion. Stroke, 1999, 30, 2197-2205.	1.0	138
173	Measurement of changes in cerebral blood volume in spontaneously hypertensive rats following L-arginine Infusion using dynamic susceptibility contrast MRI. Magnetic Resonance in Medicine, 1998, 39, 160-163.	1.9	9
174	Continuous assessment of perfusion by tagging including volume and water extraction (CAPTIVE): A steady-state contrast agent technique for measuring blood flow, relative blood volume fraction, and the water extraction fraction. Magnetic Resonance in Medicine, 1998, 40, 666-678.	1.9	51
175	Neuronal nitric oxide synthase mutant mice show smaller infarcts and attenuated apparent diffusion coefficient changes in the peri-infarct zone during focal cerebral ischemia. Magnetic Resonance in Medicine, 1997, 37, 170-175.	1.9	61
176	MR perfusion imaging in neurovascular disease. , 0, , 127-163.		1