Chun Yuan

List of Publications by Year in Descending Order

268 papers	17,517 citations	61 h-index	129 g-index
283 ext. papers	19,877 ext. citations	6 avg, IF	6.14 L-index

#	Paper	IF	Citations
268	Carotid vulnerable plaque coexisting with cerebral small vessel disease and acute ischemic stroke: a Chinese Atherosclerosis Risk Evaluation study.. *European Radiology*, **2022**, 1	8	
267	Associations of intracranial artery length and branch number on non-contrast enhanced MRA with cognitive impairment in individuals with carotid atherosclerosis.. *Scientific Reports*, **2022**, 12, 7456	4.9	0
266	Neurovascular vessel wall imaging: new techniques and clinical applications. *Advances in Magnetic Resonance Technology and Applications*, **2021**, 4, 485-500	0.1	
265	Association between coexisting intracranial artery and extracranial carotid artery atherosclerotic diseases and ipsilateral cerebral infarction: a Chinese Atherosclerosis Risk Evaluation (CARE-II) study. *Stroke and Vascular Neurology*, **2021**,	9.1	2
264	Domain adaptive and fully automated carotid artery atherosclerotic lesion detection using an artificial intelligence approach (LATTE) on 3D MRI. *Magnetic Resonance in Medicine*, **2021**, 86, 1662-1673	4.4	1
263	A standard system phantom for magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2021** , 86, 1194-1211	4.4	9
262	Neural network enhanced 3D turbo spin echo for MR intracranial vessel wall imaging. *Magnetic Resonance Imaging*, **2021**, 78, 7-17	3.3	0
261	Comparing Symptomatic and Asymptomatic Carotid Artery Atherosclerosis in Patients With Bilateral Carotid Vulnerable Plaques Using Magnetic Resonance Imaging. *Angiology*, **2021**, 33197211012531	2.1	
260	Quantitative Assessment of the Intracranial Vasculature of Infants and Adults Using iCafe (Intracranial Artery Feature Extraction). *Frontiers in Neurology*, **2021**, 12, 668298	4.1	
259	Urinary sodium and potassium excretion and cerebrovascular health: a multimodal imaging study. *European Journal of Nutrition*, **2021**, 60, 4555-4563	5.2	0
258	Atherosclerotic Burden and Remodeling Patterns of the Popliteal Artery as Detected in the Magnetic Resonance Imaging Osteoarthritis Initiative Data Set. *Journal of the American Heart Association*, **2021**, 10, e018408	6	2
257	Vessel length on SNAP MRA and TOF MRA is a potential imaging biomarker for brain blood flow. *Magnetic Resonance Imaging*, **2021**, 79, 20-27	3.3	2
256	Roadmap Consensus on Carotid Artery Plaque Imaging and Impact on Therapy Strategies and Guidelines: An International, Multispecialty, Expert Review and Position Statement. *American Journal of Neuroradiology*, **2021**, 42, 1566-1575	4.4	6
255	Comparison of time-of-flight MR angiography and intracranial vessel wall MRI for luminal measurements relative to CT angiography. *British Journal of Radiology*, **2021**, 94, 20200743	3.4	6
254	Preoperative Remnant Liver Function Evaluation Using a Routine Clinical Dynamic Gd-EOB-DTPA-Enhanced MRI Protocol in Patients with Hepatocellular Carcinoma. *Annals of Surgical Oncology*, **2021**, 28, 3672-3682	3.1	4
253	Intracranial vascular feature changes in time of flight MR angiography in patients undergoing carotid revascularization surgery. *Magnetic Resonance Imaging*, **2021**, 75, 45-50	3.3	3
252	Arterial elasticity, endothelial function and intracranial vascular health: A multimodal MRI study. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 1390-1397	7.3	2

251	Differences in atheroma between Caucasian and Asian subjects with anterior stroke: A vessel wall MRI study. *Stroke and Vascular Neurology*, **2021**, 6, 25-32	9.1	2
250	Uncontrolled hypertension associates with subclinical cerebrovascular health globally: a multimodal imaging study. *European Radiology*, **2021**, 31, 2233-2241	8	7
249	A novel sequence for simultaneous measurement of whole-brain static and dynamic MRA, intracranial vessel wall image, and T -weighted structural brain MRI. *Magnetic Resonance in Medicine* , **2021**, 85, 316-325	4.4	2
248	Deep Open Snake Tracker for Vessel Tracing. *Lecture Notes in Computer Science*, **2021**, 579-589	0.9	
247	Magnetic Resonance Imaging: Cardiovascular Applications for Clinical Trials **2021**, 1517-1538		
246	Chronic kidney disease, atherosclerotic plaque characteristics on carotid magnetic resonance imaging, and cardiovascular outcomes. *BMC Nephrology*, **2021**, 22, 69	2.7	2
245	Comparison of Carotid Plaque Characteristics Between Men and Women Using Magnetic Resonance Vessel Wall Imaging: A Chinese Atherosclerosis Risk Evaluation Study. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 646-654	5.6	0
244	Detection of Advanced Lesions of Atherosclerosis in Carotid Arteries Using 3-Dimensional Motion-Sensitized Driven-Equilibrium Prepared Rapid Gradient Echo (3D-MERGE) Magnetic Resonance Imaging as a Screening Tool. *Stroke*, **2021**, STROKEAHA120032505	6.7	0
243	Stroke Prevention with Extracranial Carotid Artery Disease. *Current Cardiology Reports*, **2021**, 23, 161	4.2	0
242	Serial magnetic resonance imaging detects a rapid reduction in plaque lipid content under PCSK9 inhibition with alirocumab. *International Journal of Cardiovascular Imaging*, **2021**, 37, 1415-1422	2.5	4
241	Quantitative assessment of carotid artery atherosclerosis by three-dimensional magnetic resonance and two-dimensional ultrasound imaging: a comparison study. *Quantitative Imaging in Medicine and Surgery*, **2020**, 10, 1021-1032	3.6	2
240	Comparison of carotid atherosclerotic plaques between subjects in Northern and Southern China: a Chinese atherosclerosis risk evaluation study. *Stroke and Vascular Neurology*, **2020**, 5, 138-145	9.1	2
239	Fully automated and robust analysis technique for popliteal artery vessel wall evaluation (FRAPPE) using neural network models from standardized knee MRI. *Magnetic Resonance in Medicine*, **2020**, 84, 2147-2160	4.4	3
238	Association Between Carotid Bifurcation Geometry and Atherosclerotic Plaque Vulnerability: A Chinese Atherosclerosis Risk Evaluation Study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1383-1391	9.4	9
237	Confidence Weighting for Robust Automated Measurements of Popliteal Vessel Wall Magnetic Resonance Imaging. *Circulation Genomic and Precision Medicine*, **2020**, 13, e002870	5.2	3
236	Evaluation of 3D multi-contrast carotid vessel wall MRI: a comparative study. *Quantitative Imaging in Medicine and Surgery*, **2020**, 10, 269-282	3.6	7
235	A novel algorithm for refining cerebral vascular measurements in infants and adults. *Journal of Neuroscience Methods*, **2020**, 340, 108751	3	3
234	Image Processing: What Is Needed and Unique for Vessel Wall Imaging? **2020**, 269-282		

233	Vessel Wall Imaging in the Era of Artificial Intelligence **2020**, 283-294		
232	Automated Intracranial Artery Labeling Using a Graph Neural Network and Hierarchical Refinement. *Lecture Notes in Computer Science*, **2020**, 76-85	0.9	3
231	Angiographic contrast mechanism comparison between Simultaneous Non-contrast Angiography and intraPlaque hemorrhage (SNAP) sequence and Time of Flight (TOF) sequence for intracranial artery. *Magnetic Resonance Imaging*, **2020**, 66, 199-207	3.3	4
230	Characterization of Carotid Atherosclerotic Plaques Using 3-Dimensional MERGE Magnetic Resonance Imaging and Correlation With Stroke Risk Factors. *Stroke*, **2020**, 51, 475-480	6.7	7
229	Comparison of Carotid Atherosclerosis between Patients at High Altitude and Sea Level: A Chinese Atherosclerosis Risk Evaluation Study. *Journal of Stroke and Cerebrovascular Diseases*, **2020**, 29, 104448	2.8	6
228	Vascular contributions to cognitive impairment and dementia (VCID): A report from the 2018 National Heart, Lung, and Blood Institute and National Institute of Neurological Disorders and Stroke Workshop. *Alzheimer's and Dementia*, **2020**, 16, 1714-1733	1.2	36
227	Bilaterally Asymmetric Associations Between Extracranial Carotid Artery Atherosclerosis and Ipsilateral Middle Cerebral Artery Stenosis in Symptomatic Patients: A CARE-II Study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 2965-2974	9.4	1
226	Complicated Carotid Artery Plaques as a Cause of Cryptogenic Stroke. *Journal of the American College of Cardiology*, **2020**, 76, 2212-2222	15.1	30
225	Contemporary rationale for non-invasive imaging of adverse coronary plaque features to identify the vulnerable patient: a Position Paper from the European Society of Cardiology Working Group on Atherosclerosis and Vascular Biology and the European Association of Cardiovascular Imaging. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 1177-1183	4.1	10
224	Automated Artery Localization and Vessel Wall Segmentation using Tracklet Refinement and Polar Conversion. *IEEE Access*, **2020**, 8, 217603-217614	3.5	5
223	Self-calibrating wave-encoded 3D turbo spin echo imaging using subspace model based autofocusing. *Magnetic Resonance in Medicine*, **2020**, 83, 1250-1262	4.4	1
222	Signal of Carotid Intraplaque Hemorrhage on MR T1-Weighted Imaging: Association with Acute Cerebral Infarct. *American Journal of Neuroradiology*, **2020**, 41, 836-843	4.4	9
221	Identification of carotid non-hemorrhagic lipid-rich necrotic core by magnetization-prepared rapid acquisition gradient-echo imaging: Validation by contrast-enhanced T1 weighted imaging. *Magnetic Resonance Imaging*, **2019**, 63, 155-158	3.3	
220	Association of Long-Term Risk Factor Levels With Carotid Atherosclerosis: The Chicago Healthy Aging Magnetic Resonance Imaging Plaque Study (CHAMPS). *Circulation: Cardiovascular Imaging*, **2019**, 12, e009226	3.9	1
219	Carotid artery segmentation using level set method with double adaptive threshold (DATLS) on TOF-MRA images. *Magnetic Resonance Imaging*, **2019**, 63, 123-130	3.3	8
218	Four Different Carotid Atherosclerotic Behaviors Based on Luminal Stenosis and Plaque Characteristics in Symptomatic Patients: An in Vivo Study. *Diagnostics*, **2019**, 9,	3.8	2
217	Intracranial aneurysms at higher clinical risk for rupture demonstrate increased wall enhancement and thinning on multicontrast 3D vessel wall MRI. *British Journal of Radiology*, **2019**, 92, 20180950	3.4	35
216	Differences in Carotid Plaques Between Symptomatic Patients With and Without Diabetes Mellitus. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 1234-1239	9.4	16

215	Understanding Atherosclerosis Through an Osteoarthritis Data Set. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 1018-1025	9.4	7
214	Orthostatic blood pressure reduction as a possible explanation for memory deficits in dialysis patients. *Hypertension Research*, **2019**, 42, 1049-1056	4.7	3
213	Semiautomatic carotid intraplaque hemorrhage volume measurement using 3D carotid MRI. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 1055-1062	5.6	8
212	Plaque components segmentation in carotid artery on simultaneous non-contrast angiography and intraplaque hemorrhage imaging using machine learning. *Magnetic Resonance Imaging*, **2019**, 60, 93-100	3.3	7
211	Quantitative assessment of the intracranial vasculature in an older adult population using iCafe. *Neurobiology of Aging*, **2019**, 79, 59-65	5.6	15
210	Imaging biomarkers of vulnerable carotid plaques for stroke risk prediction and their potential clinical implications. *Lancet Neurology, The*, **2019**, 18, 559-572	24.1	129
209	Inter-rater and scan-rescan reproducibility of the detection of intracranial atherosclerosis on contrast-enhanced 3D vessel wall MRI. *British Journal of Radiology*, **2019**, 92, 20180973	3.4	10
208	Combining morphological and biomechanical factors for optimal carotid plaque progression prediction: An MRI-based follow-up study using 3D thin-layer models. *International Journal of Cardiology*, **2019**, 293, 266-271	3.2	3
207	Deep morphology aided diagnosis network for segmentation of carotid artery vessel wall and diagnosis of carotid atherosclerosis on black-blood vessel wall MRI. *Medical Physics*, **2019**, 46, 5544-5561	4.4	14
206	Improved carotid lumen delineation on non-contrast MR angiography using SNAP (Simultaneous Non-Contrast Angiography and Intraplaque Hemorrhage) imaging. *Magnetic Resonance Imaging*, **2019**, 62, 87-93	3.3	3
205	Size of carotid artery intraplaque hemorrhage and acute ischemic stroke: a cardiovascular magnetic resonance Chinese atherosclerosis risk evaluation study. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 36	6.9	18
204	Carotid Plaque CTA Analysis in Symptomatic Subjects with Bilateral Intraparenchymal Hemorrhage: A Preliminary Analysis. *American Journal of Neuroradiology*, **2019**, 40, 1538-1545	4.4	12
203	Imaging of Carotid Plaque Neovascularization by Contrast-Enhanced Ultrasound and Dynamic Contrast-Enhanced Magnetic Resonance Imaging. *Cerebrovascular Diseases*, **2019**, 48, 140-148	3.2	2
202	Simultaneous Intracranial Artery Tracing and Segmentation from Magnetic Resonance Angiography by Joint Optimization from Multiplanar Reformation. *Lecture Notes in Computer Science*, **2019**, 201-209	0.9	0
201	Quantification of morphometry and intensity features of intracranial arteries from 3D TOF MRA using the intracranial artery feature extraction (iCafe): A reproducibility study. *Magnetic Resonance Imaging*, **2019**, 57, 293-302	3.3	11
200	Accelerated multi-contrast high isotropic resolution 3D intracranial vessel wall MRI using a tailored k-space undersampling and partially parallel reconstruction strategy. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2019**, 32, 343-357	2.8	6
199	Vascular dysfunction-The disregarded partner of Alzheimer's disease. *Alzheimer's and Dementia*, **2019**, 15, 158-167	1.2	265
198	Impact of Patient-Specific In Vivo Vessel Material Properties on Carotid Atherosclerotic Plaque Stress/Strain Calculations. *International Journal of Computational Methods*, **2019**, 16, 1842002	1.1	1

197	Carotid Artery Remodeling Is Segment Specific: An In Vivo Study by Vessel Wall Magnetic Resonance Imaging. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 927-934	9.4	25
196	The effects of navigator distortion and noise level on interleaved EPI DWI reconstruction: a comparison between image- and k-space-based method. *Magnetic Resonance in Medicine*, **2018**, 80, 2024-2032	4.4	9
195	Segmentation of gray matter, white matter, and CSF with fluid and white matter suppression using MP2RAGE. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1540-1550	5.6	10
194	Lp(a) (Lipoprotein(a)) Levels Predict Progression of Carotid Atherosclerosis in Subjects With Atherosclerotic Cardiovascular Disease on Intensive Lipid Therapy: An Analysis of the AIM-HIGH (Atherothrombosis Intervention in Metabolic Syndrome With Low HDL/High Triglycerides: Impact on Global Health Outcomes) Carotid Magnetic Resonance Imaging Substudy-Brief Report	9.4	25
193	3D true-phase polarity recovery with independent phase estimation using three-tier stacks based region growing (3D-TRIPS). *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2018**, 31, 87-99	2.8	2
192	Interleaved EPI diffusion imaging using SPIRiT-based reconstruction with virtual coil compression. *Magnetic Resonance in Medicine*, **2018**, 79, 1525-1531	4.4	17
191	Large coverage black-bright blood interleaved imaging sequence (LaBBI) for 3D dynamic contrast-enhanced MRI of vessel wall. *Magnetic Resonance in Medicine*, **2018**, 79, 1334-1344	4.4	2
190	Quantitative magnetic resonance imaging phantoms: A review and the need for a system phantom. *Magnetic Resonance in Medicine*, **2018**, 79, 48-61	4.4	74
189	Development of a quantitative intracranial vascular features extraction tool on 3D MRA using semiautomated open-curve active contour vessel tracing. *Magnetic Resonance in Medicine*, **2018**, 79, 3229-3238	4.4	37
188	Simultaneous acquisition sequence for improved hepatic pharmacokinetics quantification accuracy (SAHA) for dynamic contrast-enhanced MRI of liver. *Magnetic Resonance in Medicine*, **2018**, 79, 2629-2641	4.4	3
187	Identification of carotid lipid-rich necrotic core and calcification by 3D magnetization-prepared rapid acquisition gradient-echo imaging. *Magnetic Resonance Imaging*, **2018**, 53, 71-76	3.3	3
186	Association of severity between carotid and intracranial artery atherosclerosis. *Annals of Clinical and Translational Neurology*, **2018**, 5, 843-849	5.3	10
185	Hemodynamic assessments of venous pulsatile tinnitus using 4D-flow MRI. *Neurology*, **2018**, 91, e586-e593	7.3	23
184	Model-based reconstruction for simultaneous multislice and parallel imaging accelerated multishot diffusion tensor imaging. *Medical Physics*, **2018**, 45, 3196-3204	4.4	8
183	A comparison of readout segmented EPI and interleaved EPI in high-resolution diffusion weighted imaging. *Magnetic Resonance Imaging*, **2018**, 47, 39-47	3.3	13
182	Identification of intraplaque haemorrhage in carotid artery by simultaneous non-contrast angiography and intraPlaque haemorrhage (SNAP) imaging: a magnetic resonance vessel wall imaging study. *European Radiology*, **2018**, 28, 1681-1686	8	21
181	Carotid Intraplaque Hemorrhage Imaging with Quantitative Vessel Wall T1 Mapping: Technical Development and Initial Experience. *Radiology*, **2018**, 287, 276-284	20.5	23
180	Vascular input function correction of inflow enhancement for improved pharmacokinetic modeling of liver DCE-MRI. *Magnetic Resonance in Medicine*, **2018**, 79, 3093-3102	4.4	6

179	Evaluation of carotid atherosclerotic plaque surface characteristics utilizing simultaneous noncontrast angiography and intraplaque hemorrhage (SNAP) technique. *Journal of Magnetic Resonance Imaging*, **2018**, 47, 634-639	5.6	11
178	Atherosclerosis in stroke-related vascular beds and stroke risk: A 3-D MR vessel wall imaging study. *Annals of Clinical and Translational Neurology*, **2018**, 5, 1599-1610	5.3	12
177	Association Between Incomplete Circle of Willis and Carotid Vulnerable Atherosclerotic Plaques. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2744-2749	9.4	10
176	Quantitative characterization of carotid plaque components using MR apparent diffusion coefficients and longitudinal relaxation rates at 3T: A comparison with histology. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1657-1667	5.6	5
175	Assessment of longitudinal distribution of subclinical atherosclerosis in femoral arteries by three-dimensional cardiovascular magnetic resonance vessel wall imaging. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 60	6.9	11
174	Simultaneous T and T mapping of the carotid plaque (SIMPLE) with T and inversion recovery prepared 3D radial imaging. *Magnetic Resonance in Medicine*, **2018**, 80, 2598-2608	4.4	16
173	Fast simultaneous noncontrast angiography and intraplaque hemorrhage (fSNAP) sequence for carotid artery imaging. *Magnetic Resonance in Medicine*, **2017**, 77, 753-758	4.4	8
172	Accelerated phase contrast flow imaging with direct complex difference reconstruction. *Magnetic Resonance in Medicine*, **2017**, 77, 1036-1048	4.4	11
171	Simultaneous multislice accelerated interleaved EPI DWI using generalized blipped-CAIPI acquisition and 3D K-space reconstruction. *Magnetic Resonance in Medicine*, **2017**, 77, 1593-1605	4.4	17
170	Measuring the labeling efficiency of pseudocontinuous arterial spin labeling. *Magnetic Resonance in Medicine*, **2017**, 77, 1841-1852	4.4	28
169	Technical Note: Measurement of common carotid artery lumen dynamics using black-blood MR cine imaging. *Medical Physics*, **2017**, 44, 1105-1112	4.4	
168	Ipsilateral plaques display higher T1 signals than contralateral plaques in recently symptomatic patients with bilateral carotid intraplaque hemorrhage. *Atherosclerosis*, **2017**, 257, 78-85	3.1	18
167	Non-Invasive Identification of Vulnerable Atherosclerotic Plaques Using Texture Analysis in Ultrasound Carotid Elastography: An In Vivo Feasibility Study Validated by Magnetic Resonance Imaging. *Ultrasound in Medicine and Biology*, **2017**, 43, 817-830	3.5	16
166	A Noninvasive Sonographic Study of Multisite Atherosclerosis in an Elderly Chinese Population. *Journal of Ultrasound in Medicine*, **2017**, 36, 639-647	2.9	3
165	Chinese Atherosclerosis Risk Evaluation (CARE II) study: a novel cross-sectional, multicentre study of the prevalence of high-risk atherosclerotic carotid plaque in Chinese patients with ischaemic cerebrovascular events-design and rationale. *Stroke and Vascular Neurology*, **2017**, 2, 15-20	9.1	31
164	Simultaneous noncontrast angiography and intraplaque hemorrhage (SNAP) imaging: Comparison with contrast-enhanced MR angiography for measuring carotid stenosis. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 1045-1052	5.6	14
163	Carotid Plaque Lipid Content and Fibrous Cap Status Predict Systemic CV Outcomes: The MRI Substudy in AIM-HIGH. *JACC: Cardiovascular Imaging*, **2017**, 10, 241-249	8.4	59
162	Identifying Carotid Plaque Composition in MRI with Convolutional Neural Networks **2017**,		2

161	A vascular image registration method based on network structure and circuit simulation. *BMC Bioinformatics*, **2017**, 18, 229	3.6	3
160	Atherosclerotic plaque features and distribution in bilateral carotid arteries of asymptomatic elderly population: A 3D multicontrast MR vessel wall imaging study. *European Journal of Radiology*, **2017**, 96, 6-11	4.7	19
159	Femoral artery plaque characteristics, lower extremity collaterals, and mobility loss in peripheral artery disease. *Vascular Medicine*, **2017**, 22, 473-481	3.3	7
158	Added Value of Vessel Wall Magnetic Resonance Imaging for Differentiation of Nonocclusive Intracranial Vasculopathies. *Stroke*, **2017**, 48, 3026-3033	6.7	59
157	Prevalence and Characteristics of Carotid Artery High-Risk Atherosclerotic Plaques in Chinese Patients With Cerebrovascular Symptoms: A Chinese Atherosclerosis Risk Evaluation II Study. *Journal of the American Heart Association*, **2017**, 6,	6	41
156	High-resolution diffusion tensor imaging in cervical spondylotic myelopathy: a preliminary follow-up study. *NMR in Biomedicine*, **2017**, 30, e3769	4.4	7
155	Association between Snoring and High-Risk Carotid Plaque Features. *Otolaryngology - Head and Neck Surgery*, **2017**, 157, 336-344	5.5	5
154	Dynamic contrast-enhanced MR imaging of carotid vasa vasorum in relation to coronary and cerebrovascular events. *Atherosclerosis*, **2017**, 263, 420-426	3.1	11
153	Real-time phase-contrast flow cardiovascular magnetic resonance with low-rank modeling and parallel imaging. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 19	6.9	15
152	Imaging of the high-risk carotid plaque: magnetic resonance imaging. *Seminars in Vascular Surgery*, **2017**, 30, 54-61	1.2	17
151	Plaque Composition in the Proximal Superficial Femoral Artery and Peripheral Artery Disease Events. *JACC: Cardiovascular Imaging*, **2017**, 10, 1003-1012	8.4	26
150	Hepatic function imaging using dynamic Gd-EOB-DTPA enhanced MRI and pharmacokinetic modeling. *Magnetic Resonance in Medicine*, **2017**, 78, 1488-1495	4.4	9
149	3D intracranial artery segmentation using a convolutional autoencoder **2017**,		12
148	MRI-based patient-specific human carotid atherosclerotic vessel material property variations in patients, vessel location and long-term follow up. *PLoS ONE*, **2017**, 12, e0180829	3.7	6
147	Three-Dimensional Carotid Plaque MR Imaging. *Neuroimaging Clinics of North America*, **2016**, 26, 1-12	3	15
146	In vivo semi-automatic segmentation of multicontrast cardiovascular magnetic resonance for prospective cohort studies on plaque tissue composition: initial experience. *International Journal of Cardiovascular Imaging*, **2016**, 32, 73-81	2.5	9
145	High resolution FDG-microPET of carotid atherosclerosis: plaque components underlying enhanced FDG uptake. *International Journal of Cardiovascular Imaging*, **2016**, 32, 145-52	2.5	18
144	STEP: Self-supporting tailored k-space estimation for parallel imaging reconstruction. *Magnetic Resonance in Medicine*, **2016**, 75, 750-61	4.4	4

143	Co-existing intracranial and extracranial carotid artery atherosclerotic plaques and recurrent stroke risk: a three-dimensional multicontrast cardiovascular magnetic resonance study. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18, 90	6.9	40
142	Characterization of atherosclerotic disease in thoracic aorta: A 3D, multicontrast vessel wall imaging study. *European Journal of Radiology*, **2016**, 85, 2030-2035	4.7	15
141	Added Value of Vessel Wall Magnetic Resonance Imaging in the Differentiation of Moyamoya Vasculopathies in a Non-Asian Cohort. *Stroke*, **2016**, 47, 1782-8	6.7	52
140	Summary of clinical and laboratory data of study subjects with and without DCE-MRI plaque measurements in the AIM-HIGH clinical trial. *Data in Brief*, **2016**, 6, 476-81	1.2	1
139	Expansive arterial remodeling of the carotid arteries and its effect on atherosclerotic plaque composition and vulnerability: an in-vivo black-blood 3T CMR study in symptomatic stroke patients. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18, 11	6.9	18
138	Vessel wall imaging for intracranial vascular disease evaluation. *Journal of NeuroInterventional Surgery*, **2016**, 8, 1154-1159	7.8	50
137	Longer duration of statin therapy is associated with decreased carotid plaque vascularity by magnetic resonance imaging. *Atherosclerosis*, **2016**, 245, 74-81	3.1	17
136	Blood Pressure Is a Major Modifiable Risk Factor Implicated in Pathogenesis of Intraplaque Hemorrhage: An In Vivo Magnetic Resonance Imaging Study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 743-9	9.4	31
135	Quest for the Vulnerable Atheroma: Carotid Stenosis and Diametric Strain--A Feasibility Study. *Ultrasound in Medicine and Biology*, **2016**, 42, 699-716	3.5	5
134	High-resolution intracranial vessel wall imaging: imaging beyond the lumen. *Journal of Neurology, Neurosurgery and Psychiatry*, **2016**, 87, 589-97	5.5	77
133	Ultrasound-Based Carotid Elastography for Detection of Vulnerable Atherosclerotic Plaques Validated by Magnetic Resonance Imaging. *Ultrasound in Medicine and Biology*, **2016**, 42, 365-77	3.5	39
132	Manual versus Automated Carotid Artery Plaque Component Segmentation in High and Lower Quality 3.0 Tesla MRI Scans. *PLoS ONE*, **2016**, 11, e0164267	3.7	6
131	Semi-automatic carotid intraplaque hemorrhage detection and quantification on Magnetization-Prepared Rapid Acquisition Gradient-Echo (MP-RAGE) with optimized threshold selection. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18, 41	6.9	12
130	In Vivo Validation of Simultaneous Non-Contrast Angiography and intraPlaque Hemorrhage (SNAP) Magnetic Resonance Angiography: An Intracranial Artery Study. *PLoS ONE*, **2016**, 11, e0149130	3.7	15
129	A Robust and Accurate Two-Step Auto-Labeling Conditional Iterative Closest Points (TACICP) Algorithm for Three-Dimensional Multi-Modal Carotid Image Registration. *PLoS ONE*, **2016**, 11, e0148783	3.7	5
128	Identification of early atherosclerotic lesions in carotid arteries with quantitative characteristics measured by 3D MRI. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 1270-1276	5.6	4
127	Joint blood and cerebrospinal fluid suppression for intracranial vessel wall MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 831-8	4.4	50
126	Evaluation of basilar artery atherosclerotic plaque distribution by 3D MR vessel wall imaging. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 1592-1599	5.6	9

125	Multiscale coherence regularization reconstruction using a nonlocal operator for fast variable-density spiral imaging. *Magnetic Resonance Imaging*, **2016**, 34, 964-73	3.3	1
124	Carotid plaque fissure: An underestimated source of intraplaque hemorrhage. *Atherosclerosis*, **2016**, 254, 102-108	3.1	26
123	POCS-enhanced inherent correction of motion-induced phase errors (POCS-ICE) for high-resolution multishot diffusion MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 169-80	4.4	28
122	Intra-individual comparison of carotid and femoral atherosclerotic plaque features with in vivo MR plaque imaging. *International Journal of Cardiovascular Imaging*, **2015**, 31, 1611-8	2.5	6
121	Evaluation of 3D multi-contrast joint intra- and extracranial vessel wall cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17, 41	6.9	48
120	Nonstenotic Culprit Plaque: The Utility of High-Resolution Vessel Wall MRI of Intracranial Vessels after Ischemic Stroke. *Case Reports in Radiology*, **2015**, 2015, 356582	0.6	19
119	Multicontrast high-resolution vessel wall magnetic resonance imaging and its value in differentiating intracranial vasculopathic processes. *Stroke*, **2015**, 46, 1567-73	6.7	142
118	Associations of arterial distensibility between carotid arteries and abdominal aorta by MR. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 1138-42	5.6	5
117	Carotid magnetic resonance imaging for monitoring atherosclerotic plaque progression: a multicenter reproducibility study. *International Journal of Cardiovascular Imaging*, **2015**, 31, 95-103	2.5	48
116	Assessment of carotid artery atherosclerotic disease by using three-dimensional fast black-blood MR imaging: comparison with DSA. *Radiology*, **2015**, 274, 508-16	20.5	31
115	PROMISE: parallel-imaging and compressed-sensing reconstruction of multicontrast imaging using SharablE information. *Magnetic Resonance in Medicine*, **2015**, 73, 523-35	4.4	31
114	Prediction of high-risk plaque development and plaque progression with the carotid atherosclerosis score. *JACC: Cardiovascular Imaging*, **2014**, 7, 366-73	8.4	39
113	Image-based modeling for better understanding and assessment of atherosclerotic plaque progression and vulnerability: data, modeling, validation, uncertainty and predictions. *Journal of Biomechanics*, **2014**, 47, 834-46	2.9	55
112	Clinical factors associated with high-risk carotid plaque features as assessed by magnetic resonance imaging in patients with established vascular disease (from the AIM-HIGH Study). *American Journal of Cardiology*, **2014**, 114, 1412-9	3	25
111	High-risk plaque in the superficial femoral artery of people with peripheral artery disease: prevalence and associated clinical characteristics. *Atherosclerosis*, **2014**, 237, 169-76	3.1	21
110	Varying correlation between 18F-fluorodeoxyglucose positron emission tomography and dynamic contrast-enhanced MRI in carotid atherosclerosis: implications for plaque inflammation. *Stroke*, **2014**, 45, 1842-5	6.7	22
109	Magnetic Resonance Imaging Tracking of Graft Survival in the Infarcted Heart: Iron Oxide Particles Versus Ferritin Overexpression Approach. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2014**, 19, 358-367	2.6	19
108	Computed tomography angiography vs 3T black-blood cardiovascular magnetic resonance for identification of symptomatic carotid plaques. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16, 84	6.9	13

107	Collateral vessel number, plaque burden, and functional decline in peripheral artery disease. *Vascular Medicine*, **2014**, 19, 281-288	3.3	5
106	Simultaneous noncontrast angiography and intraplaque hemorrhage (SNAP) imaging for carotid atherosclerotic disease evaluation. *Magnetic Resonance in Medicine*, **2013**, 69, 337-45	4.4	94
105	Association of carotid atherosclerotic plaque features with acute ischemic stroke: a magnetic resonance imaging study. *European Journal of Radiology*, **2013**, 82, e465-70	4.7	52
104	Meta-analysis and systematic review of the predictive value of carotid plaque hemorrhage on cerebrovascular events by magnetic resonance imaging. *Journal of the American College of Cardiology*, **2013**, 62, 1081-1091	15.1	215
103	Comparison of symptomatic and asymptomatic atherosclerotic carotid plaques using parallel imaging and 3T black-blood in vivo CMR. *Journal of Cardiovascular Magnetic Resonance*, **2013**, 15, 44	6.9	19
102	MRI of carotid atherosclerosis. *American Journal of Roentgenology*, **2013**, 200, W304-13	5.4	21
101	Subclinical carotid atherosclerosis: short-term natural history of lipid-rich necrotic core--a multicenter study with MR imaging. *Radiology*, **2013**, 268, 61-8	20.5	53
100	Adventitial perfusion and intraplaque hemorrhage: a dynamic contrast-enhanced MRI study in the carotid artery. *Stroke*, **2013**, 44, 1031-6	6.7	39
99	Atherosclerotic plaque inflammation quantification using dynamic contrast-enhanced (DCE) MRI. *Quantitative Imaging in Medicine and Surgery*, **2013**, 3, 298-301	3.6	12
98	High-field atherosclerotic plaque magnetic resonance imaging. *Neuroimaging Clinics of North America*, **2012**, 22, 271-84, xi	3	7
97	Quantitative evaluation of high intensity signal on MIP images of carotid atherosclerotic plaques from routine TOF-MRA reveals elevated volumes of intraplaque hemorrhage and lipid rich necrotic core. *Journal of Cardiovascular Magnetic Resonance*, **2012**, 14, 81	6.9	27
96	Prevalence of nonstenosing, complicated atherosclerotic plaques in cryptogenic stroke. *JACC: Cardiovascular Imaging*, **2012**, 5, 397-405	8.4	135
95	Sustained acceleration in carotid atherosclerotic plaque progression with intraplaque hemorrhage: a long-term time course study. *JACC: Cardiovascular Imaging*, **2012**, 5, 798-804	8.4	99
94	Segmentation of carotid plaque using multicontrast 3D gradient echo MRI. *Journal of Magnetic Resonance Imaging*, **2012**, 35, 812-9	5.6	23
93	Accelerated 3D MERGE carotid imaging using compressed sensing with a hidden Markov tree model. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 1194-202	5.6	17
92	Quantifying effect of intraplaque hemorrhage on critical plaque wall stress in human atherosclerotic plaques using three-dimensional fluid-structure interaction models. *Journal of Biomechanical Engineering*, **2012**, 134, 121004	2.1	18
91	Plaque Characteristics in the Superficial Femoral Artery Correlate with Walking Impairment Questionnaire Scores in Peripheral Arterial Disease: The Walking and Leg Circulation Study (WALCS) III **2012**, 3, 148-157		1
90	MR imaging of carotid plaque composition during lipid-lowering therapy a prospective assessment of effect and time course. *JACC: Cardiovascular Imaging*, **2011**, 4, 977-86	8.4	117

89	Discriminating carotid atherosclerotic lesion severity by luminal stenosis and plaque burden: a comparison utilizing high-resolution magnetic resonance imaging at 3.0 Tesla. *Stroke*, **2011**, 42, 347-53	6.7	59
88	Intravascular 3.0 T MRI Using an Imaging-Guidewire: a Feasibility Study in Swine. *Applied Magnetic Resonance*, **2011**, 40, 105-112	0.8	4
87	Carotid plaque assessment using fast 3D isotropic resolution black-blood MRI. *Magnetic Resonance in Medicine*, **2011**, 65, 627-37	4.4	117
86	Fast plaque burden assessment of the femoral artery using 3D black-blood MRI and automated segmentation. *Medical Physics*, **2011**, 38, 5370-84	4.4	21
85	Carotid artery atherosclerosis: effect of intensive lipid therapy on the vasa vasorum--evaluation by using dynamic contrast-enhanced MR imaging. *Radiology*, **2011**, 260, 224-31	20.5	65
84	Time-efficient black blood RCA wall imaging at 3T using improved motion sensitized driven equilibrium (iMSDE): feasibility and reproducibility. *PLoS ONE*, **2011**, 6, e26567	3.7	8
83	Ferritin Overexpression for Noninvasive Magnetic Resonance Imaging–Based Tracking of Stem Cells Transplanted into the Heart. *Molecular Imaging*, **2010**, 9, 7290.2010.00020	3.7	60
82	3D critical plaque wall stress is a better predictor of carotid plaque rupture sites than flow shear stress: An in vivo MRI-based 3D FSI study. *Journal of Biomechanical Engineering*, **2010**, 132, 031007	2.1	61
81	Carotid intraplaque hemorrhage imaging at 3.0-T MR imaging: comparison of the diagnostic performance of three T1-weighted sequences. *Radiology*, **2010**, 254, 551-63	20.5	153
80	MRI of carotid atherosclerosis: clinical implications and future directions. *Nature Reviews Cardiology* , **2010**, 7, 165-73	14.8	119
79	Sex differences in patients with asymptomatic carotid atherosclerotic plaque: in vivo 3.0-T magnetic resonance study. *Stroke*, **2010**, 41, 1630-5	6.7	54
78	Prevalence of compositional features in subclinical carotid atherosclerosis determined by high-resolution magnetic resonance imaging in chinese patients with coronary artery disease. *Stroke*, **2010**, 41, 1157-62	6.7	16
77	Minimization of MR contrast weightings for the comprehensive evaluation of carotid atherosclerotic disease. *Investigative Radiology*, **2010**, 45, 36-41	10.1	24
76	Scan-rescan reproducibility of carotid atherosclerotic plaque morphology and tissue composition measurements using multicontrast MRI at 3T. *Journal of Magnetic Resonance Imaging*, **2010**, 31, 168-76	5.6	67
75	Enhanced image quality in black-blood MRI using the improved motion-sensitized driven-equilibrium (iMSDE) sequence. *Journal of Magnetic Resonance Imaging*, **2010**, 31, 1256-63	5.6	123
74	Improved carotid intraplaque hemorrhage imaging using a slab-selective phase-sensitive inversion-recovery (SPI) sequence. *Magnetic Resonance in Medicine*, **2010**, 64, 1332-40	4.4	43
73	Advanced human carotid plaque progression correlates positively with flow shear stress using follow-up scan data: an in vivo MRI multi-patient 3D FSI study. *Journal of Biomechanics*, **2010**, 43, 2530-8	2.9	53
72	The association of lesion eccentricity with plaque morphology and components in the superficial femoral artery: a high-spatial-resolution, multi-contrast weighted CMR study. *Journal of Cardiovascular Magnetic Resonance*, **2010**, 12, 37	6.9	46

71	Atherosclerotic plaque progression in carotid arteries: monitoring with high-spatial-resolution MR imaging--multicenter trial. *Radiology*, **2009**, 252, 789-96	20.5	52
70	Improvements in carotid plaque imaging using a new eight-element phased array coil at 3T. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 1209-14	5.6	45
69	High resolution carotid black-blood 3T MR with parallel imaging and dedicated 4-channel surface coils. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11, 41	6.9	41
68	Cardiovascular magnetic resonance in carotid atherosclerotic disease. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11, 53	6.9	24
67	Sites of rupture in human atherosclerotic carotid plaques are associated with high structural stresses: an in vivo MRI-based 3D fluid-structure interaction study. *Stroke*, **2009**, 40, 3258-63	6.7	148
66	Magnetic [corrected] resonance imaging [corrected] features of the disruption-prone and the disrupted carotid plaque. *JACC: Cardiovascular Imaging*, **2009**, 2, 883-96	8.4	32
65	Arterial remodeling in [corrected] subclinical carotid artery disease. *JACC: Cardiovascular Imaging*, **2009**, 2, 1381-9	8.4	66
64	Local critical stress correlates better than global maximum stress with plaque morphological features linked to atherosclerotic plaque vulnerability: an in vivo multi-patient study. *BioMedical Engineering OnLine*, **2009**, 8, 15	4.1	49
63	MULTI-PATIENT FSI STUDIES FOR ATHEROSCLEROTIC CAROTID PLAQUE PROGRESSION BASED ON SERIAL MAGNETIC RESONANCE IMAGING **2009**, 203-217		
62	Prevalence of American Heart Association type VI carotid atherosclerotic lesions identified by magnetic resonance imaging for different levels of stenosis as measured by duplex ultrasound. *Journal of the American College of Cardiology*, **2008**, 51, 1014-21	15.1	100
61	Effect of rosuvastatin therapy on carotid plaque morphology and composition in moderately hypercholesterolemic patients: a high-resolution magnetic resonance imaging trial. *American Heart Journal*, **2008**, 155, 584.e1-8	4.9	192
60	Differences in carotid arterial morphology and composition between individuals with and without obstructive coronary artery disease: a cardiovascular magnetic resonance study. *Journal of Cardiovascular Magnetic Resonance*, **2008**, 10, 31	6.9	34
59	Comparison between 2D and 3D high-resolution black-blood techniques for carotid artery wall imaging in clinically significant atherosclerosis. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 918-24	5.6	70
58	Signal features of the atherosclerotic plaque at 3.0 Tesla versus 1.5 Tesla: impact on automatic classification. *Journal of Magnetic Resonance Imaging*, **2008**, 28, 987-95	5.6	32
57	MRI of carotid atherosclerosis. *Journal of Nuclear Cardiology*, **2008**, 15, 266-75	2.1	41
56	Meshless Generalized Finite Difference Method and Human Carotid Atherosclerotic Plaque Progression Simulation Using Multi-Year MRI Patient-Tracking Data. *CMES - Computer Modeling in Engineering and Sciences*, **2008**, 28, 95-107	1.7	7
55	Quantifying Human Atherosclerotic Plaque Growth Function Using Multi-Year In Vivo MRI and Meshless Local Petrov-Galerkin Method **2007**,		1
54	The vulnerable, or high-risk, atherosclerotic plaque: noninvasive MR imaging for characterization and assessment. *Radiology*, **2007**, 244, 64-77	20.5	271

53	Serial MRI of carotid plaque burden: influence of subject repositioning on measurement precision. *Magnetic Resonance in Medicine*, **2007**, 57, 592-9	4.4	25
52	Improved suppression of plaque-mimicking artifacts in black-blood carotid atherosclerosis imaging using a multislice motion-sensitized driven-equilibrium (MSDE) turbo spin-echo (TSE) sequence. *Magnetic Resonance in Medicine*, **2007**, 58, 973-81	4.4	169
51	Reader and platform reproducibility for quantitative assessment of carotid atherosclerotic plaque using 1.5T Siemens, Philips, and General Electric scanners. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 344-52	5.6	40
50	Plaque rupture in the carotid artery is localized at the high shear stress region: a case report. *Stroke* , **2007**, 38, 2379-81	6.7	175
49	Magnetic resonance imaging of carotid atherosclerosis: plaque analysis. *Topics in Magnetic Resonance Imaging*, **2007**, 18, 371-8	2.3	161
48	Predictors of carotid atherosclerotic plaque progression as measured by noninvasive magnetic resonance imaging. *Atherosclerosis*, **2007**, 194, e34-42	3.1	99
47	MRI of atherosclerosis in clinical trials. *NMR in Biomedicine*, **2006**, 19, 636-54	4.4	109
46	Automated in vivo segmentation of carotid plaque MRI with Morphology-Enhanced probability maps. *Magnetic Resonance in Medicine*, **2006**, 55, 659-68	4.4	87
45	Multicontrast black-blood MRI of carotid arteries: comparison between 1.5 and 3 tesla magnetic field strengths. *Journal of Magnetic Resonance Imaging*, **2006**, 23, 691-8	5.6	116
44	Intra- and interreader reproducibility of magnetic resonance imaging for quantifying the lipid-rich necrotic core is improved with gadolinium contrast enhancement. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 203-10	5.6	79
43	Automated measurement of mean wall thickness in the common carotid artery by MRI: a comparison to intima-media thickness by B-mode ultrasound. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 379-87	5.6	64
42	Comparison of symptomatic and asymptomatic atherosclerotic carotid plaque features with in vivo MR imaging. *Radiology*, **2006**, 240, 464-72	20.5	169
41	Inflammation in carotid atherosclerotic plaque: a dynamic contrast-enhanced MR imaging study. *Radiology*, **2006**, 241, 459-68	20.5	242
40	Association between carotid plaque characteristics and subsequent ischemic cerebrovascular events: a prospective assessment with MRI--initial results. *Stroke*, **2006**, 37, 818-23	6.7	600
39	Response to Letter by Moody et al. *Stroke*, **2006**, 37, 1649-1649	6.7	
38	Presence of intraplaque hemorrhage stimulates progression of carotid atherosclerotic plaques: a high-resolution magnetic resonance imaging study. *Circulation*, **2005**, 111, 2768-75	16.7	450
37	Local maximal stress hypothesis and computational plaque vulnerability index for atherosclerotic plaque assessment. *Annals of Biomedical Engineering*, **2005**, 33, 1789-801	4.7	95
36	In vivo quantitative measurement of intact fibrous cap and lipid-rich necrotic core size in atherosclerotic carotid plaque: comparison of high-resolution, contrast-enhanced magnetic resonance imaging and histology. *Circulation*, **2005**, 112, 3437-44	16.7	415

35	3D MRI-based multicomponent FSI models for atherosclerotic plaques. *Annals of Biomedical Engineering*, **2004**, 32, 947-60	4.7	169
34	MRI of atherosclerosis. *Journal of Magnetic Resonance Imaging*, **2004**, 19, 710-9	5.6	114
33	Hemorrhage in the atherosclerotic carotid plaque: a high-resolution MRI study. *Stroke*, **2004**, 35, 1079-84	6.7	345
32	Multislice double inversion-recovery black-blood imaging with simultaneous slice reinversion. *Journal of Magnetic Resonance Imaging*, **2003**, 17, 478-83	5.6	104
31	Accuracy and uniqueness of three in vivo measurements of atherosclerotic carotid plaque morphology with black blood MRI. *Magnetic Resonance in Medicine*, **2003**, 50, 75-82	4.4	53
30	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
29	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. *Circulation*, **2003**, 108, 1772-8	16.7	886
28	Quantitative magnetic resonance imaging analysis of neovasculature volume in carotid atherosclerotic plaque. *Circulation*, **2003**, 107, 851-6	16.7	309
27	Contrast-enhanced high resolution MRI for atherosclerotic carotid artery tissue characterization. *Journal of Magnetic Resonance Imaging*, **2002**, 15, 62-7	5.6	336
26	T1-insensitive flow suppression using quadruple inversion-recovery. *Magnetic Resonance in Medicine*, **2002**, 48, 899-905	4.4	109
25	Segmentation of Multi-Channel Image with Markov Random Field Based Active Contour Model. *Journal of Signal Processing Systems*, **2002**, 31, 45-55		4
24	Identification of fibrous cap rupture with magnetic resonance imaging is highly associated with recent transient ischemic attack or stroke. *Circulation*, **2002**, 105, 181-5	16.7	373
23	Classification of human carotid atherosclerotic lesions with in vivo multicontrast magnetic resonance imaging. *Circulation*, **2002**, 106, 1368-73	16.7	573
22	Carotid atherosclerotic wall imaging by MRI. *Neuroimaging Clinics of North America*, **2002**, 12, 391-401, vi	3	32
21	A multi-scale method for automatic correction of intensity non-uniformity in MR images. *Journal of Magnetic Resonance Imaging*, **2001**, 13, 428-36	5.6	43
20	In vivo accuracy of multispectral magnetic resonance imaging for identifying lipid-rich necrotic cores and intraplaque hemorrhage in advanced human carotid plaques. *Circulation*, **2001**, 104, 2051-6	16.7	651
19	Effects of prolonged intensive lipid-lowering therapy on the characteristics of carotid atherosclerotic plaques in vivo by MRI: a case-control study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2001**, 21, 1623-9	9.4	238
18	Carotid atherosclerotic plaque: noninvasive MR characterization and identification of vulnerable lesions. *Radiology*, **2001**, 221, 285-99	20.5	380

17	Analysis of the measurement precision of arterial lumen and wall areas using high-resolution MRI. *Magnetic Resonance in Medicine*, **2000**, 44, 968-72	4.4	75
16	Visualization of fibrous cap thickness and rupture in human atherosclerotic carotid plaque in vivo with high-resolution magnetic resonance imaging. *Circulation*, **2000**, 102, 959-64	16.7	510
15	Closed contour edge detection of blood vessel lumen and outer wall boundaries in black-blood MR images. *Magnetic Resonance Imaging*, **1999**, 17, 257-66	3.3	101
14	Black blood magnetic resonance angiography with Dy-DTPA polymer: effect on arterial intraluminal signal intensity, lumen diameter, and wall thickness. *Journal of Magnetic Resonance Imaging*, **1998**, 8, 1051-9	5.6	10
13	Measurement of atherosclerotic carotid plaque size in vivo using high resolution magnetic resonance imaging. *Circulation*, **1998**, 98, 2666-71	16.7	263
12	In vivo measurement of regional brain metabolic response to hyperventilation using magnetic resonance: proton echo planar spectroscopic imaging (PEPSI). *Magnetic Resonance in Medicine*, **1997**, 37, 858-65	4.4	99
11	In vitro and in situ magnetic resonance imaging signal features of atherosclerotic plaque-associated lipids. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 1496-503	9.4	48
10	Surface coil phased arrays for high-resolution imaging of the carotid arteries. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 109-12	5.6	131
9	Atherosclerosis of the carotid artery: evaluation by magnetic resonance angiography. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 726-32	5.6	21
8	Serial magnetic resonance imaging of experimental atherosclerosis detects lesion fine structure, progression and complications in vivo. *Nature Medicine*, **1995**, 1, 69-73	50.5	182
7	Multislab three-dimensional T2-weighted fast spin-echo imaging of the hippocampus: sequence optimization. *Journal of Magnetic Resonance Imaging*, **1995**, 5, 309-15	5.6	14
6	Phased-array magnetic resonance imaging of the carotid artery bifurcation: preliminary results in healthy volunteers and a patient with atherosclerotic disease. *Journal of Magnetic Resonance Imaging*, **1995**, 5, 561-5	5.6	68
5	MR angiography by multiple thin slab 3D acquisition. *Magnetic Resonance in Medicine*, **1991**, 17, 434-51	4.4	228
4	Flow-induced phase effects and compensation technique for slice-selective pulses. *Magnetic Resonance in Medicine*, **1989**, 9, 161-76	4.4	12
3	The solution of Bloch equations for flowing spins during a selective pulse using a finite difference method. *Medical Physics*, **1987**, 14, 914-21	4.4	32
2	Image segmentation based on Bayesian network-Markov random field model and its application to in vivo plaque composition		3
1	Information theoretic analysis of plaque in MR imaging		1