

Chengcheng Zhu

List of Publications by Year in descending order

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papers

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citations

304368

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395343

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92
all docs

92
docs citations

92
times ranked

1802
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular Imaging With Ferumoxytol as a Contrast Agent. American Journal of Roentgenology, 2015, 205, W366-W373.	1.0	104
2	High resolution imaging of the intracranial vessel wall at 3 and 7T using 3D fast spin echo MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 559-570.	1.1	59
3	Culprit intracranial plaque without substantial stenosis in acute ischemic stroke on vessel wall MRI: A systematic review. Atherosclerosis, 2019, 287, 112-121.	0.4	58
4	Ex-vivo imaging and plaque type classification of intracranial atherosclerotic plaque using high resolution MRI. Atherosclerosis, 2016, 249, 10-16.	0.4	54
5	Higher Plaque Burden of Middle Cerebral Artery Is Associated With Recurrent Ischemic Stroke. Stroke, 2020, 51, 659-662.	1.0	53
6	Qualitative and Quantitative Wall Enhancement on Magnetic Resonance Imaging Is Associated With Symptoms of Unruptured Intracranial Aneurysms. Stroke, 2021, 52, 213-222.	1.0	52
7	Identification of high-risk plaque features in intracranial atherosclerosis: initial experience using a radiomic approach. European Radiology, 2018, 28, 3912-3921.	2.3	50
8	Bridging Thrombolysis Achieved Better Outcomes Than Direct Thrombectomy After Large Vessel Occlusion. Stroke, 2021, 52, 356-365.	1.0	50
9	Optimization of Improved Motion-sensitized Driven-equilibrium (iMSDE) blood suppression for carotid artery wall imaging. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 61.	1.6	48
10	Clinical Significance of Intraplaque Hemorrhage in Low- and High-Grade Basilar Artery Stenosis on High-Resolution MRI. American Journal of Neuroradiology, 2018, 39, 1286-1292.	1.2	47
11	Intraluminal Thrombus Predicts Rapid Growth of Abdominal Aortic Aneurysms. Radiology, 2020, 294, 707-713.	3.6	47
12	Intracranial Aneurysm Wall Enhancement Associated with Aneurysm Rupture: A Systematic Review and Meta-analysis. Academic Radiology, 2019, 26, 664-673.	1.3	39
13	Isotropic 3D black blood MRI of abdominal aortic aneurysm wall and intraluminal thrombus. Magnetic Resonance Imaging, 2016, 34, 18-25.	1.0	35
14	Progression of Plaque Burden of Intracranial Atherosclerotic Plaque Predicts Recurrent Stroke/Transient Ischemic Attack: A Pilot Follow-up Study Using Higher-Resolution MRI. Journal of Magnetic Resonance Imaging, 2021, 54, 560-570.	1.9	33
15	Accelerated whole brain intracranial vessel wall imaging using black blood fast spin echo with compressed sensing (CS-SPACE). Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 457-467.	1.1	32
16	Emerging Use of Ultra-High-Field 7T MRI in the Study of Intracranial Vasculature: State of the Field and Future Directions. American Journal of Neuroradiology, 2020, 41, 2-9.	1.2	32
17	Assessment of Intracranial Atherosclerotic Plaques Using 3D Black-blood MRI : Comparison With 3D Time-of-Flight MRA and DSA. Journal of Magnetic Resonance Imaging, 2021, 53, 469-478.	1.9	31
18	Segmentation of lumen and outer wall of abdominal aortic aneurysms from 3D black-blood MRI with a registration based geodesic active contour model. Medical Image Analysis, 2017, 40, 1-10.	7.0	30

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19	Arterial Luminal Curvature and Fibrous-Cap Thickness Affect Critical Stress Conditions Within Atherosclerotic Plaque: An In Vivo MRI-Based 2D Finite-Element Study. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3096-3101.	1.3	28
20	Wall enhancement of intracranial saccular and fusiform aneurysms may differ in intensity and extension: a pilot study using 7-T high-resolution black-blood MRI. <i>European Radiology</i> , 2020, 30, 301-307.	2.3	28
21	Intracranial Atherosclerotic Plaque Characteristics and Burden Associated With Recurrent Acute Stroke: A 3D Quantitative Vessel Wall MRI Study. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 706544.	1.7	28
22	Normalized Wall Index Specific and MRI-Based Stress Analysis of Atherosclerotic Carotid Plaques - A Study Comparing Acutely Symptomatic and Asymptomatic Patients -. <i>Circulation Journal</i> , 2010, 74, 2360-2364.	0.7	27
23	Impact of plaque haemorrhage and its age on structural stresses in atherosclerotic plaques of patients with carotid artery disease: an MR imaging-based finite element simulation study. <i>International Journal of Cardiovascular Imaging</i> , 2011, 27, 397-402.	0.7	27
24	Highly accelerated intracranial 4D flow MRI: evaluation of healthy volunteers and patients with intracranial aneurysms. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 295-307.	1.1	26
25	Wall enhancement of intracranial unruptured aneurysm is associated with increased rupture risk and traditional risk factors. <i>European Radiology</i> , 2018, 28, 5019-5026.	2.3	25
26	Scan-Rescan Reproducibility of High Resolution Magnetic Resonance Imaging of Atherosclerotic Plaque in the Middle Cerebral Artery. <i>PLoS ONE</i> , 2015, 10, e0134913.	1.1	23
27	Effect of region of interest size on ADC measurements in pancreatic adenocarcinoma. <i>Cancer Imaging</i> , 2017, 17, 13.	1.2	20
28	Non-contrast 3D black blood MRI for abdominal aortic aneurysm surveillance: comparison with CT angiography. <i>European Radiology</i> , 2017, 27, 1787-1794.	2.3	20
29	Shape related features of intracranial aneurysm are associated with rupture status in a large Chinese cohort. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 252-256.	2.0	20
30	Highly-accelerated self-gated free-breathing 3D cardiac cine MRI: validation in assessment of left ventricular function. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 337-346.	1.1	19
31	Wall enhancement on black-blood MRI is independently associated with symptomatic status of unruptured intracranial saccular aneurysm. <i>European Radiology</i> , 2020, 30, 6413-6420.	2.3	19
32	Lumen Irregularity Dominates the Relationship Between Mechanical Stress Condition, Fibrous-Cap Thickness, and Lumen Curvature in Carotid Atherosclerotic Plaque. <i>Journal of Biomechanical Engineering</i> , 2011, 133, 034501.	0.6	17
33	Evaluation of chronic carotid artery occlusion by non-contrast 3D-MERGE MR vessel wall imaging: comparison with 3D-TOF-MRA, contrast-enhanced MRA, and DSA. <i>European Radiology</i> , 2020, 30, 5805-5814.	2.3	17
34	Surveillance of Unruptured Intracranial Saccular Aneurysms Using Noncontrast 3D-Black-Blood MRI: Comparison of 3D-TOF and Contrast-Enhanced MRA with 3D-DSA. <i>American Journal of Neuroradiology</i> , 2019, 40, 960-966.	1.2	16
35	Comparison of time-of-flight MR angiography and intracranial vessel wall MRI for luminal measurements relative to CT angiography. <i>British Journal of Radiology</i> , 2021, 94, 20200743.	1.0	16
36	3D high-resolution contrast enhanced MRI of carotid atheroma – a technical update. <i>Magnetic Resonance Imaging</i> , 2014, 32, 594-597.	1.0	15

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37	Evaluation of the distribution and progression of intraluminal thrombus in abdominal aortic aneurysms using high-resolution MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 994-1001.	1.9	15
38	Visualizing wall enhancement over time in unruptured intracranial aneurysms using 3D vessel wall imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 193-200.	1.9	13
39	Association of Type 2 Diabetes Mellitus and Glycemic Control With Intracranial Plaque Characteristics in Patients With Acute Ischemic Stroke. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 655-666.	1.9	13
40	Survey of the American Society of Neuroradiology Membership on the Use and Value of Intracranial Vessel Wall MRI. <i>American Journal of Neuroradiology</i> , 2022, 43, 951-957.	1.2	13
41	Cost-effectiveness of endovascular thrombectomy in patients with acute stroke and M2 occlusion. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 784-789.	2.0	12
42	Irregular pulsation of intracranial unruptured aneurysm detected by four-dimensional CT angiography is associated with increased estimated rupture risk and conventional risk factors. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 854-859.	2.0	12
43	Outcomes after Thrombectomy for Minor Stroke: A Meta-Analysis. <i>World Neurosurgery</i> , 2021, 149, e1140-e1154.	0.7	12
44	Baseline vessel wall magnetic resonance imaging characteristics associated with in-stent restenosis for intracranial atherosclerotic stenosis. <i>Journal of NeuroInterventional Surgery</i> , 2023, 15, 288-291.	2.0	12
45	Gated thoracic magnetic resonance angiography at 3T: noncontrast versus blood pool contrast. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 475-483.	0.7	11
46	Deep neural network-based detection and segmentation of intracranial aneurysms on 3D rotational DSA. <i>Interventional Neuroradiology</i> , 2021, 27, 648-657.	0.7	11
47	Quantitative analysis of unruptured intracranial aneurysm wall thickness and enhancement using 7T high resolution, black blood magnetic resonance imaging. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 723-728.	2.0	11
48	Chronic intracranial artery stenosis: Comparison of whole-brain arterial spin labeling with CT perfusion. <i>Clinical Imaging</i> , 2018, 52, 252-259.	0.8	10
49	Wall enhancement characteristics of vertebrobasilar nonsaccular aneurysms and their relationship to symptoms. <i>European Journal of Radiology</i> , 2020, 129, 109064.	1.2	10
50	Comparison of 7ÅT and 3ÅT vessel wall MRI for the evaluation of intracranial aneurysm wall. <i>European Radiology</i> , 2022, 32, 2384-2392.	2.3	10
51	A Randomized Controlled Trial of Statins to Reduce Inflammation in Unruptured Cerebral Aneurysms. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1668-1670.	2.3	10
52	Qualitative and Quantitative Wall Enhancement Analyses in Unruptured Aneurysms Are Associated With an Increased Risk of Aneurysm Instability. <i>Frontiers in Neuroscience</i> , 2020, 14, 580205.	1.4	9
53	Large Culprit Plaque and More Intracranial Plaques Are Associated with Recurrent Stroke: A Case-Control Study Using Vessel Wall Imaging. <i>American Journal of Neuroradiology</i> , 2022, 43, 207-215.	1.2	9
54	Image-Quality Assessment of 3D Intracranial Vessel Wall MRI Using DANTE or DANTE-CAIPI for Blood Suppression and Imaging Acceleration. <i>American Journal of Neuroradiology</i> , 2022, 43, 837-843.	1.2	9

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55	Serum IL-1, Pyroptosis and Intracranial Aneurysm Wall Enhancement: Analysis Integrating Radiology, Serum Cytokines and Histology. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 818789.	1.1	8
56	Risk Factors for Pericallosal Artery Aneurysm Rupture Based on Morphological Computer-Assisted Semiautomated Measurement and Hemodynamic Analysis. <i>Frontiers in Neuroscience</i> , 2021, 15, 759806.	1.4	8
57	Surveillance of abdominal aortic aneurysm using accelerated 3D non-contrast black-blood cardiovascular magnetic resonance with compressed sensing (CS-DANTE-SPACE). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 66.	1.6	7
58	On the Relative Impact of Intraluminal Thrombus Heterogeneity on Abdominal Aortic Aneurysm Mechanics. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	0.6	7
59	Characterization of Lenticulostriate Arteries and Its Associations With Vascular Risk Factors in Community-Dwelling Elderly. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 685571.	1.7	6
60	Dynamic Changes of Asymmetric Cortical Veins Relate to Neurologic Prognosis in Acute Ischemic Stroke. <i>Radiology</i> , 2021, 301, 210201.	3.6	6
61	Carotid stenosis assessment with multi-detector CT angiography: comparison between manual and automatic segmentation methods. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 899-905.	0.7	5
62	Identification and Quantitative Assessment of Different Components of Intracranial Atherosclerotic Plaque by Ex Vivo 3T High-Resolution Multicontrast MRI. <i>American Journal of Neuroradiology</i> , 2017, 38, 1716-1722.	1.2	5
63	Knowledge-based iterative model reconstruction. <i>Medicine (United States)</i> , 2018, 97, e11514.	0.4	5
64	Biventricular Morphology and Function Reference Values Derived From a Large Sample of Healthy Chinese Adults by Magnetic Resonance Imaging. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 697481.	1.1	5
65	The Use of Pointwise Encoding Time Reduction With Radial Acquisition MRA to Assess Middle Cerebral Artery Stenosis Pre- and Post-stent Angioplasty: Comparison With 3D Time-of-Flight MRA and DSA. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 739332.	1.1	5
66	Wall enhancement as an emerging marker of intracranial aneurysm stability: Roadmap toward a potential target for clinical trials. <i>European Journal of Neurology</i> , 2021, 28, 3550-3551.	1.7	5
67	Assessment of Therapeutic Response to Statin Therapy in Patients With Intracranial or Extracranial Carotid Atherosclerosis by Vessel Wall MRI: A Systematic Review and Updated Meta-Analysis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 742935.	1.1	5
68	Presence of Vessel Wall Hyperintensity in Unruptured Arteriovenous Malformations on Vessel Wall Magnetic Resonance Imaging: Pilot Study of AVM Vessel Wall "Enhancement". <i>Frontiers in Neuroscience</i> , 2021, 15, 697432.	1.4	4
69	Application of High-Resolution Flat Detector Computed Tomography in Stent Implantation for Intracranial Atherosclerotic Stenosis. <i>Frontiers in Neuroscience</i> , 2021, 15, 655594.	1.4	4
70	Irregular pulsation of aneurysmal wall is associated with symptomatic and ruptured intracranial aneurysms. <i>Journal of NeuroInterventional Surgery</i> , 2023, 15, 91-96.	2.0	4
71	Comparison of Gated and Ungated Black-Blood Fast Spin-echo MRI of Carotid Vessel Wall at 3T. <i>Magnetic Resonance in Medical Sciences</i> , 2016, 15, 266-272.	1.1	3
72	Computer-aided quantification of non-contrast 3D black blood MRI as an efficient alternative to reference standard manual CT angiography measurements of abdominal aortic aneurysms. <i>European Journal of Radiology</i> , 2021, 134, 109396.	1.2	3

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73	Vessel Wall MR Imaging in the Pediatric Head and Neck. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021, 29, 595-604.	0.6	3
74	Case Report: Dynamic Changes in Hemodynamics During the Formation and Progression of Intracranial Aneurysms. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 775536.	1.1	3
75	Use of CTA Test Dose to Trigger a Low Cardiac Output Protocol Improves Acute Stroke CTP Data Analyzed with RAPID Software. <i>American Journal of Neuroradiology</i> , 2022, 43, 388-393.	1.2	3
76	Free-breathing black-blood CINE fast-spin echo imaging for measuring abdominal aortic wall distensibility: a feasibility study. <i>Physics in Medicine and Biology</i> , 2017, 62, N204-N218.	1.6	2
77	Abdominal aortic aneurysm measurement at CT/MRI: potential clinical ramifications of non-standardized measurement technique and importance of multiplanar reformation. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 823-830.	1.1	2
78	Idiopathic intracranial hypertension imaging approaches and the implications in patient management. <i>British Journal of Radiology</i> , 2022, 95, 20220136.	1.0	2
79	COMPARISON OF TWO METHODS FOR ESTIMATING THE UNLOADED STATE FOR ABDOMINAL AORTIC ANEURYSM STRESS CALCULATIONS. <i>Journal of Mechanics in Medicine and Biology</i> , 2019, 19, 1950015.	0.3	1
80	Computed tomography angiography findings predictive of post-intervention vasospasm in patients with aneurysmal subarachnoid hemorrhage. <i>British Journal of Radiology</i> , 2021, 94, 20200893.	1.0	1
81	Imaging of Vulnerable Intracranial Atherosclerotic Plaque for Embolic Stroke of Undetermined Source. <i>Journal of the American College of Cardiology</i> , 2021, 77, 3140.	1.2	1
82	Basic Principles of Magnetic Resonance Imaging. , 2015, , 153-169.		1
83	White Matter Hyperintensities and Their Relationship to Outcomes after Stroke Intervention. <i>Radiology</i> , 2022, 304, 153-154.	3.6	1
84	Quantification of Shear Stress and Geometric Risk Factors in Carotid Atherosclerosis: Review and Clinical Evidence. <i>Recent Patents on Medical Imaging</i> , 2013, 3, 27-43.	0.1	0
85	Ferumoxytol-enhanced MR Angiography for Transcatheter Aortic Valve Replacement Planning in Patients with Renal Failure. <i>Radiology</i> , 2018, 287, 362-363.	3.6	0
86	Letter by Zhu et al Regarding Article, "Aortic Wall Inflammation Predicts Abdominal Aortic Aneurysm Expansion, Rupture, and Need for Surgical Repair" • <i>Circulation</i> , 2018, 137, 1293-1294.	1.6	0
87	<i>Reply:</i>. <i>American Journal of Neuroradiology</i> , 2019, 40, E2-E2.	1.2	0
88	Growth of common iliac artery aneurysms coexisting with abdominal aortic aneurysms: associated factors and potential role of intraluminal thrombus. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 703-712.	1.1	0
89	Quantitative measurement of atheroma burden: reproducibility in serial studies of atherosclerotic femoral arteries. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 855-863.	1.1	0
90	Beyond the AJR: Comparable Clinical Outcomes When Using Noncontrast CT, CT Perfusion Imaging, or MRI to Select Patients With Stroke for Mechanical Thrombectomy. <i>American Journal of Roentgenology</i> , 2022, , .	1.0	0

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91	Construction and Evaluation of Multiple Radiomics Models for Identifying the Instability of Intracranial Aneurysms Based on CTA. <i>Frontiers in Neurology</i> , 2022, 13, 876238.	1.1	0