Max Wintermark

List of Publications by Citations

524 papers	25,818 citations	72 h-index	150 g-index
562 ext. papers	30,703 ext. citations	5.3 avg, IF	6.81 L-index

#	Paper	IF	Citations
524	Guidelines for the early management of patients with acute ischemic stroke: a guideline for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* , **2013**, 44, 870-947	6.7	3424
523	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). *IEEE Transactions on Medical Imaging*, **2015**, 34, 1993-2024	11.7	2132
522	A trial of imaging selection and endovascular treatment for ischemic stroke. *New England Journal of Medicine*, **2013**, 368, 914-23	59.2	1050
521	Recommendations on angiographic revascularization grading standards for acute ischemic stroke: a consensus statement. *Stroke*, **2013**, 44, 2650-63	6.7	884
520	Perfusion-CT assessment of infarct core and penumbra: receiver operating characteristic curve analysis in 130 patients suspected of acute hemispheric stroke. *Stroke*, **2006**, 37, 979-85	6.7	625
519	A pilot study of focused ultrasound thalamotomy for essential tremor. *New England Journal of Medicine*, **2013**, 369, 640-8	59.2	553
518	Intravenous desmoteplase in patients with acute ischaemic stroke selected by MRI perfusion-diffusion weighted imaging or perfusion CT (DIAS-2): a prospective, randomised, double-blind, placebo-controlled study. *Lancet Neurology, The*, **2009**, 8, 141-50	24.1	469
517	Prognostic accuracy of cerebral blood flow measurement by perfusion computed tomography, at the time of emergency room admission, in acute stroke patients. *Annals of Neurology*, **2002**, 51, 417-32	9.4	426
516	Comparative overview of brain perfusion imaging techniques. *Stroke*, **2005**, 36, e83-99	6.7	317
515	Recommendations for the management of cerebral and cerebellar infarction with swelling: a statement for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke*, **2014**, 45, 1222-38	6.7	305
514	MR imaging predictors of molecular profile and survival: multi-institutional study of the TCGA glioblastoma data set. *Radiology*, **2013**, 267, 560-9	20.5	296
513	Comparison of admission perfusion computed tomography and qualitative diffusion- and perfusion-weighted magnetic resonance imaging in acute stroke patients. *Stroke*, **2002**, 33, 2025-31	6.7	283
512	High-resolution CT imaging of carotid artery atherosclerotic plaques. *American Journal of Neuroradiology*, **2008**, 29, 875-82	4.4	272
511	Systematic comparison of perfusion-CT and CT-angiography in acute stroke patients. *Annals of Neurology*, **2007**, 61, 533-43	9.4	237
510	Perfusion MRI: the five most frequently asked technical questions. *American Journal of Roentgenology*, **2013**, 200, 24-34	5.4	225
509	Quantitative assessment of regional cerebral blood flows by perfusion CT studies at low injection rates: a critical review of the underlying theoretical models. *European Radiology*, **2001**, 11, 1220-30	8	220
508	Focal lesions in acute mild traumatic brain injury and neurocognitive outcome: CT versus 3T MRI. *Journal of Neurotrauma*, **2008**, 25, 1049-56	5.4	209

507	CT perfusion scanning with deconvolution analysis: pilot study in patients with acute middle cerebral artery stroke. *Radiology*, **2002**, 222, 227-36	20.5	206
506	The Acute STroke Registry and Analysis of Lausanne (ASTRAL): design and baseline analysis of an ischemic stroke registry including acute multimodal imaging. *Stroke*, **2010**, 41, 2491-8	6.7	169
505	Optimal Symmetric Multimodal Templates and Concatenated Random Forests for Supervised Brain Tumor Segmentation (Simplified) with ANTsR. *Neuroinformatics*, **2015**, 13, 209-25	3.2	163
504	How accurate is CT angiography in evaluating intracranial atherosclerotic disease?. *Stroke*, **2008**, 39, 1184-8	6.7	160
503	Imaging of intracranial haemorrhage. *Lancet Neurology, The*, **2008**, 7, 256-67	24.1	159
502	Outcome prediction in patients with glioblastoma by using imaging, clinical, and genomic biomarkers: focus on the nonenhancing component of the tumor. *Radiology*, **2014**, 272, 484-93	20.5	155
501	Accuracy of dynamic perfusion CT with deconvolution in detecting acute hemispheric stroke. *American Journal of Neuroradiology*, **2005**, 26, 104-12	4.4	155
500	Multislice computerized tomography angiography in the evaluation of intracranial aneurysms: a comparison with intraarterial digital subtraction angiography. *Journal of Neurosurgery*, **2003**, 98, 828-36	3.2	149
499	Contrast extravasation on CT predicts mortality in primary intracerebral hemorrhage. *American Journal of Neuroradiology*, **2008**, 29, 520-5	4.4	148
498	Deep Learning in Neuroradiology. *American Journal of Neuroradiology*, **2018**, 39, 1776-1784	4.4	142
497	Thoracolumbar spine fractures in patients who have sustained severe trauma: depiction with multi-detector row CT. *Radiology*, **2003**, 227, 681-9	20.5	141
496	The Macklin effect: a frequent etiology for pneumomediastinum in severe blunt chest trauma. *Chest*, **2001**, 120, 543-7	5.3	141
495	Resting-State Functional MRI: Everything That Nonexperts Have Always Wanted to Know. *American Journal of Neuroradiology*, **2018**, 39, 1390-1399	4.4	137
494	Acute Stroke Imaging Research Roadmap II. *Stroke*, **2013**, 44, 2628-39	6.7	133
493	Deep learning enables reduced gadolinium dose for contrast-enhanced brain MRI. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 330-340	5.6	132
492	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
491	Dynamic perfusion CT: optimizing the temporal resolution and contrast volume for calculation of perfusion CT parameters in stroke patients. *American Journal of Neuroradiology*, **2004**, 25, 720-9	4.4	128
490	Reperfusion is a more accurate predictor of follow-up infarct volume than recanalization: a proof of concept using CT in acute ischemic stroke patients. *Stroke*, **2010**, 41, e34-40	6.7	127

489	Carotid Artery Wall Imaging: Perspective and Guidelines from the ASNR Vessel Wall Imaging Study Group and Expert Consensus Recommendations of the American Society of Neuroradiology. *American Journal of Neuroradiology*, **2018**, 39, E9-E31	4.4	125
488	Blood-brain barrier permeability assessed by perfusion CT predicts symptomatic hemorrhagic transformation and malignant edema in acute ischemic stroke. *American Journal of Neuroradiology*, **2011**, 32, 41-8	4.4	124
487	Common data elements in radiologic imaging of traumatic brain injury. *Archives of Physical Medicine and Rehabilitation*, **2010**, 91, 1661-6	2.8	121
486	Correlation of early dynamic CT perfusion imaging with whole-brain MR diffusion and perfusion imaging in acute hemispheric stroke. *American Journal of Neuroradiology*, **2003**, 24, 1869-75	4.4	119
485	Admission perfusion CT: prognostic value in patients with severe head trauma. *Radiology*, **2004**, 232, 211-20	20.5	118
484	Janus Iron Oxides @ Semiconducting Polymer Nanoparticle Tracer for Cell Tracking by Magnetic Particle Imaging. *Nano Letters*, **2018**, 18, 182-189	11.5	117
483	Transcranial MRI-Guided Focused Ultrasound: A Review of the Technologic and Neurologic Applications. *American Journal of Roentgenology*, **2015**, 205, 150-9	5.4	112
482	Common data elements in radiologic imaging of traumatic brain injury. *Journal of Magnetic Resonance Imaging*, **2010**, 32, 516-43	5.6	112
481	Traumatic injuries: role of imaging in the management of the polytrauma victim (conservative expectation). *European Radiology*, **2002**, 12, 969-78	8	112
480	Difference in disease burden and activity in pediatric patients on brain magnetic resonance imaging at time of multiple sclerosis onset vs adults. *Archives of Neurology*, **2009**, 66, 967-71		111
479	Reversible monoparesis following decompressive hemicraniectomy for traumatic brain injury. *Journal of Neurosurgery*, **2008**, 109, 245-54	3.2	111
478	Genomic mapping and survival prediction in glioblastoma: molecular subclassification strengthened by hemodynamic imaging biomarkers. *Radiology*, **2013**, 267, 212-20	20.5	109
477	Accuracy and reliability assessment of CT and MR perfusion analysis software using a digital phantom. *Radiology*, **2013**, 267, 201-11	20.5	104
476	Brain perfusion in children: evolution with age assessed by quantitative perfusion computed tomography. *Pediatrics*, **2004**, 113, 1642-52	7.4	103
475	Risk of Recurrent Arterial Ischemic Stroke in Childhood: A Prospective International Study. *Stroke*, **2016**, 47, 53-9	6.7	101
474	Comparative Overview of Brain Perfusion Imaging Techniques. *Stroke*, **2005**, 36, 2032-2033	6.7	98
473	Imaging of Intracranial Hemorrhage. *Journal of Stroke*, **2017**, 19, 11-27	5.6	97
472	Arteriopathy diagnosis in childhood arterial ischemic stroke: results of the vascular effects of infection in pediatric stroke study. *Stroke*, **2014**, 45, 3597-605	6.7	94

471	Relationship between brain perfusion computed tomography variables and cerebral perfusion pressure in severe head trauma patients. *Critical Care Medicine*, **2004**, 32, 1579-87	1.4	93
470	High and Low Molecular Weight Fluorescein Isothiocyanate (FITC)-Dextrans to Assess Blood-Brain Barrier Disruption: Technical Considerations. *Translational Stroke Research*, **2011**, 2, 106-11	7.8	92
469	Imaging evidence and recommendations for traumatic brain injury: conventional neuroimaging techniques. *Journal of the American College of Radiology*, **2015**, 12, e1-14	3.5	91
468	Potential intracranial applications of magnetic resonance-guided focused ultrasound surgery. *Journal of Neurosurgery*, **2013**, 118, 215-21	3.2	88
467	Imaging findings in MR imaging-guided focused ultrasound treatment for patients with essential tremor. *American Journal of Neuroradiology*, **2014**, 35, 891-6	4.4	86
466	A Review of Magnetic Particle Imaging and Perspectives on Neuroimaging. *American Journal of Neuroradiology*, **2019**, 40, 206-212	4.4	83
465	A benchmarking tool to evaluate computer tomography perfusion infarct core predictions against a DWI standard. *Journal of Cerebral Blood Flow and Metabolism*, **2016**, 36, 1780-1789	7.3	81
464	Multimodal imaging of striatal degeneration in Amish patients with glutaryl-CoA dehydrogenase deficiency. *Brain*, **2007**, 130, 1905-20	11.2	81
463	Diffusion tensor imaging as a prognostic biomarker for motor recovery and rehabilitation after stroke. *Neuroradiology*, **2017**, 59, 343-351	3.2	80
462	Addition of MR imaging features and genetic biomarkers strengthens glioblastoma survival prediction in TCGA patients. *Journal of Neuroradiology*, **2015**, 42, 212-21	3.1	80
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460	Imaging evidence and recommendations for traumatic brain injury: advanced neuro- and neurovascular imaging techniques. *American Journal of Neuroradiology*, **2015**, 36, E1-E11	4.4	78
459	Imaging recommendations for acute stroke and transient ischemic attack patients: A joint statement by the American Society of Neuroradiology, the American College of Radiology, and the Society of NeuroInterventional Surgery. *American Journal of Neuroradiology*, **2013**, 34, E117-27	4.4	77
458	Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials: Consensus Recommendations and Further Research Priorities. *Stroke*, **2016**, 47, 1389-98	6.7	77
457	Principles of T2 *-weighted dynamic susceptibility contrast MRI technique in brain tumor imaging. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 296-313	5.6	76
456	Prospective evaluation of multidetector-row CT angiography for the diagnosis of vasospasm following subarachnoid hemorrhage: a comparison with digital subtraction angiography. *Cerebrovascular Diseases*, **2008**, 25, 144-50	3.2	75
455	Radiation dose reduction strategy for CT protocols: successful implementation in neuroradiology section. *Radiology*, **2008**, 247, 499-506	20.5	75
454	Radiation dose-reduction strategies for neuroradiology CT protocols. *American Journal of Neuroradiology*, **2007**, 28, 1628-32	4.4	74

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452	Stroke Recovery and Rehabilitation Research: Issues, Opportunities, and the National Institutes of Health StrokeNet. *Stroke*, **2017**, 48, 813-819	6.7	71
451	Perfusion MRI: the five most frequently asked clinical questions. *American Journal of Roentgenology* , **2013**, 201, W495-510	5.4	71
450	Multiparametric MRI and CT models of infarct core and favorable penumbral imaging patterns in acute ischemic stroke. *Stroke*, **2013**, 44, 73-9	6.7	71
449	Radiation-induced imaging changes following Gamma Knife surgery for cerebral arteriovenous malformations. *Journal of Neurosurgery*, **2013**, 118, 63-73	3.2	70
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447	Dorsal thoracic arachnoid web and the "scalpel sign": a distinct clinical-radiologic entity. *American Journal of Neuroradiology*, **2013**, 34, 1104-10	4.4	69
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444	A magnetic resonance imaging, histological, and dose modeling comparison of focused ultrasound, radiofrequency, and Gamma Knife radiosurgery lesions in swine thalamus. *Journal of Neurosurgery*, **2013**, 119, 307-17	3.2	68
443	Vascular occlusion enables selecting acute ischemic stroke patients for treatment with desmoteplase. *Stroke*, **2012**, 43, 1561-6	6.7	68
442	Infection, vaccination, and childhood arterial ischemic stroke: Results of the VIPS study. *Neurology*, **2015**, 85, 1459-66	6.5	67
441	Imaging of the carotid artery vulnerable plaque. *CardioVascular and Interventional Radiology*, **2014**, 37, 572-85	2.7	67
440	Herpesvirus Infections and Childhood Arterial Ischemic Stroke: Results of the VIPS Study. *Circulation*, **2016**, 133, 732-41	16.7	62
439	Perfusion Computed Tomography for the Evaluation of Acute Ischemic Stroke: Strengths and Pitfalls. *Stroke*, **2016**, 47, 1153-8	6.7	62
438	Automated CT perfusion imaging for acute ischemic stroke: Pearls and pitfalls for real-world use. *Neurology*, **2019**, 93, 888-898	6.5	61
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434	Local cortical hypoperfusion imaged with CT perfusion during postictal Todd's paresis. *Neuroradiology*, **2008**, 50, 397-401	3.2	59
433	Brain perfusion-CT in acute stroke patients. *European Radiology, Supplement*, **2005**, 15 Suppl 4, D28-31		59
432	Imaging recommendations for acute stroke and transient ischemic attack patients: a joint statement by the American Society of Neuroradiology, the American College of Radiology and the Society of NeuroInterventional Surgery. *Journal of the American College of Radiology*, **2013**, 10, 828-32	3.5	58
431	Computed tomography workup of patients suspected of acute ischemic stroke: perfusion computed tomography adds value compared with clinical evaluation, noncontrast computed tomography, and computed tomography angiogram in terms of predicting outcome. *Stroke*, **2013**, 44, 1049-55	6.7	57
430	Visual grading system for vasospasm based on perfusion CT imaging: comparisons with conventional angiography and quantitative perfusion CT. *Cerebrovascular Diseases*, **2008**, 26, 163-70	3.2	56
429	Effect of Collaterals on Clinical Presentation, Baseline Imaging, Complications, and Outcome in Acute Stroke. *American Journal of Neuroradiology*, **2015**, 36, 2285-91	4.4	55
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427	Applications of Deep Learning to Neuro-Imaging Techniques. *Frontiers in Neurology*, **2019**, 10, 869	4.1	55
426	Pretreatment blood-brain barrier damage and post-treatment intracranial hemorrhage in patients receiving intravenous tissue-type plasminogen activator. *Stroke*, **2014**, 45, 2030-5	6.7	55
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420	Acute stroke magnetic resonance imaging: current status and future perspective. *Neuroradiology*, **2010**, 52, 189-201	3.2	54
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418	Intravoxel incoherent motion perfusion imaging in acute stroke: initial clinical experience. *Neuroradiology*, **2014**, 56, 629-35	3.2	53

417	The predictive value of magnetic resonance imaging in evaluating intracranial arteriovenous malformation obliteration after stereotactic radiosurgery. *Journal of Neurosurgery*, **2015**, 123, 136-44	3.2	53
416	Imaging of acute traumatic injuries of the thoracic aorta. *European Radiology*, **2002**, 12, 431-42	8	53
415	Clinical and Imaging Characteristics of Arteriopathy Subtypes in Children with Arterial Ischemic Stroke: Results of the VIPS Study. *American Journal of Neuroradiology*, **2017**, 38, 2172-2179	4.4	53
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413	Cost-effectiveness of focused ultrasound, radiosurgery, and DBS for essential tremor. *Movement Disorders*, **2017**, 32, 1165-1173	7	51
412	Closing the loop on impulsivity via nucleus accumbens delta-band activity in mice and man. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 192-197	11.5	51
411	Imaging genomic mapping of an invasive MRI phenotype predicts patient outcome and metabolic dysfunction: a TCGA glioma phenotype research group project. *BMC Medical Genomics*, **2014**, 7, 30	3.7	51
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400	Practice type effects on head impact in collegiate football. *Journal of Neurosurgery*, **2016**, 124, 501-10	3.2	45

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396	Double diffusion encoding MRI for the clinic. *Magnetic Resonance in Medicine*, **2018**, 80, 507-520	4.4	44
395	Minimally invasive treatment of intracerebral hemorrhage with magnetic resonance-guided focused ultrasound. *Journal of Neurosurgery*, **2013**, 118, 1035-45	3.2	44
394	Perfusion-CT guided intravenous thrombolysis in patients with unknown-onset stroke: a randomized, double-blind, placebo-controlled, pilot feasibility trial. *Neuroradiology*, **2012**, 54, 579-88	3.2	42
393	International survey of acute stroke imaging used to make revascularization treatment decisions. *International Journal of Stroke*, **2015**, 10, 759-62	6.3	40
392	Patient-centered Radiology: Where Are We, Where Do We Want to Be, and How Do We Get There?. *Radiology*, **2017**, 285, 601-608	20.5	39
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388	Diffusion MRI tractography for improved transcranial MRI-guided focused ultrasound thalamotomy targeting for essential tremor. *NeuroImage: Clinical*, **2018**, 19, 572-580	5.3	39
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365	Blunt traumatic rupture of a mainstem bronchus: spiral CT demonstration of the "fallen lung" sign. *European Radiology*, **2001**, 11, 409-11	8	32
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