Steven Warach

List of Publications by Citations

138 papers	17,736 citations	57 h-index	133 g-index
147 ext. papers	19,701 ext. citations	8.3 avg, IF	6.05 L-index

#	Paper	IF	Citations
138	Cerebral microbleeds: a guide to detection and interpretation. *Lancet Neurology, The*, **2009**, 8, 165-74	24.1	1206
137	Trial design and reporting standards for intra-arterial cerebral thrombolysis for acute ischemic stroke. *Stroke*, **2003**, 34, e109-37	6.7	989
136	A general kinetic model for quantitative perfusion imaging with arterial spin labeling. *Magnetic Resonance in Medicine*, **1998**, 40, 383-96	4.4	894
135	Recommendations on angiographic revascularization grading standards for acute ischemic stroke: a consensus statement. *Stroke*, **2013**, 44, 2650-63	6.7	884
134	Acute human stroke studied by whole brain echo planar diffusion-weighted magnetic resonance imaging. *Annals of Neurology*, **1995**, 37, 231-41	9.4	876
133	The Desmoteplase in Acute Ischemic Stroke Trial (DIAS): a phase II MRI-based 9-hour window acute stroke thrombolysis trial with intravenous desmoteplase. *Stroke*, **2005**, 36, 66-73	6.7	859
132	Magnetic resonance imaging and computed tomography in emergency assessment of patients with suspected acute stroke: a prospective comparison. *Lancet, The*, **2007**, 369, 293-8	40	803
131	MRI profile and response to endovascular reperfusion after stroke (DEFUSE 2): a prospective cohort study. *Lancet Neurology, The*, **2012**, 11, 860-7	24.1	612
130	Comparison of MRI and CT for detection of acute intracerebral hemorrhage. *JAMA - Journal of the American Medical Association*, **2004**, 292, 1823-30	27.4	500
129	Magnetic resonance imaging of acute stroke. *Journal of Cerebral Blood Flow and Metabolism*, **1998**, 18, 583-609	7.3	493
128	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
127	Dose Escalation of Desmoteplase for Acute Ischemic Stroke (DEDAS): evidence of safety and efficacy 3 to 9 hours after stroke onset. *Stroke*, **2006**, 37, 1227-31	6.7	451
126	Enlargement of human cerebral ischemic lesion volumes measured by diffusion-weighted magnetic resonance imaging. *Annals of Neurology*, **1997**, 41, 581-9	9.4	448
125	Clinical outcome in ischemic stroke predicted by early diffusion-weighted and perfusion magnetic resonance imaging: a preliminary analysis. *Journal of Cerebral Blood Flow and Metabolism*, **1996**, 16, 53-9	7.3	426
124	DWI-FLAIR mismatch for the identification of patients with acute ischaemic stroke within 4·5 h of symptom onset (PRE-FLAIR): a multicentre observational study. *Lancet Neurology, The*, **2011**, 10, 978-86	24.1	364
123	Early blood-brain barrier disruption in human focal brain ischemia. *Annals of Neurology*, **2004**, 56, 468-77	9.4	357
122	Ischemic lesion volumes in acute stroke by diffusion-weighted magnetic resonance imaging correlate with clinical outcome. *Annals of Neurology*, **1997**, 42, 164-70	9.4	339

121	Schizophrenic subjects activate dorsolateral prefrontal cortex during a working memory task, as measured by fMRI. *Biological Psychiatry*, **1999**, 45, 1128-37	7.9	324
120	Recommendations for imaging of acute ischemic stroke: a scientific statement from the American Heart Association. *Stroke*, **2009**, 40, 3646-78	6.7	315
119	Evidence of reperfusion injury, exacerbated by thrombolytic therapy, in human focal brain ischemia using a novel imaging marker of early blood-brain barrier disruption. *Stroke*, **2004**, 35, 2659-61	6.7	288
118	MRI features of intracerebral hemorrhage within 2 hours from symptom onset. *Stroke*, **1999**, 30, 2263-7	6.7	257
117	Prefrontal cortex fMRI signal changes are correlated with working memory load. *NeuroReport*, **1997** , 8, 545-9	1.7	234
116	Association of ischemic lesion patterns on early diffusion-weighted imaging with TOAST stroke subtypes. *Archives of Neurology*, **2003**, 60, 1730-4		210
115	A three-item scale for the early prediction of stroke recovery. *Lancet, The*, **2001**, 357, 2095-9	40	185
114	Oral citicoline in acute ischemic stroke: an individual patient data pooling analysis of clinical trials. *Stroke*, **2002**, 33, 2850-7	6.7	168
113	Detection of hyperacute primary intraparenchymal hemorrhage by magnetic resonance imaging. *Stroke*, **1996**, 27, 2321-4	6.7	160
112	Blood-brain barrier disruption in humans is independently associated with increased matrix metalloproteinase-9. *Stroke*, **2010**, 41, e123-8	6.7	144
111	Acute ischemic cerebrovascular syndrome: diagnostic criteria. *Stroke*, **2003**, 34, 2995-8	6.7	135
110	Early ischemic lesion recurrence within a week after acute ischemic stroke. *Annals of Neurology*, **2003**, 54, 66-74	9.4	131
109	Diagnostic and prognostic value of early MR Imaging vessel signs in hyperacute stroke patients imaged . *American Journal of Neuroradiology*, **2005**, 26, 618-24	4.4	115
108	Early magnetic resonance imaging findings in patients receiving tissue plasminogen activator predict outcome: Insights into the pathophysiology of acute stroke in the thrombolysis era. *Annals of Neurology*, **2004**, 55, 105-12	9.4	111
107	Accuracy and reliability assessment of CT and MR perfusion analysis software using a digital phantom. *Radiology*, **2013**, 267, 201-11	20.5	104
106	Predictors of acute stroke mimics in 8187 patients referred to a stroke service. *Journal of Stroke and Cerebrovascular Diseases*, **2013**, 22, e397-403	2.8	103
105	Imaging of acute stroke. *Nature Reviews Neurology*, **2010**, 6, 560-71	15	102
104	Standardizing the structure of stroke clinical and epidemiologic research data: the National Institute of Neurological Disorders and Stroke (NINDS) Stroke Common Data Element (CDE) project. *Stroke*, **2012**, 43, 967-73	6.7	100

103	Thrombolytic toxicity: blood brain barrier disruption in human ischemic stroke. *Cerebrovascular Diseases*, **2008**, 25, 338-43	3.2	97
102	The Virtual International Stroke Trials Archive. *Stroke*, **2007**, 38, 1905-10	6.7	97
101	Comparison of EPISTAR and T2*-weighted gadolinium-enhanced perfusion imaging in patients with acute cerebral ischemia. *Neurology*, **1997**, 48, 673-9	6.5	93
100	Magnetic resonance imaging in acute ischemic stroke treatment. *Journal of Stroke*, **2014**, 16, 131-45	5.6	87
99	Validation of an acute ischemic stroke model: does diffusion-weighted imaging lesion volume offer a clinically significant improvement in prediction of outcome?. *Stroke*, **2007**, 38, 1820-5	6.7	86
98	Diffusion-weighted imaging and National Institutes of Health Stroke Scale in the acute phase of posterior-circulation stroke. *Archives of Neurology*, **2001**, 58, 621-8		85
97	Cortical activation in the human brain during lateral saccades using EPISTAR functional magnetic resonance imaging. *NeuroImage*, **1996**, 3, 53-62	7.9	84
96	Whole-brain arterial spin labeling perfusion MRI in patients with acute stroke. *Stroke*, **2012**, 43, 1290-4	6.7	82
95	Clinical correlations of diffusion and perfusion lesion volumes in acute ischemic stroke. *Cerebrovascular Diseases*, **2000**, 10, 441-8	3.2	82
94	MRI screening before standard tissue plasminogen activator therapy is feasible and safe. *Stroke*, **2005**, 36, 1939-43	6.7	79
93	Intravenous thrombolysis in unwitnessed stroke onset: MR WITNESS trial results. *Annals of Neurology*, **2018**, 83, 980-993	9.4	77
92	Intra- and interrater reliability of ischemic lesion volume measurements on diffusion-weighted, mean transit time and fluid-attenuated inversion recovery MRI. *Stroke*, **2006**, 37, 2951-6	6.7	71
91	Development, expansion, and use of a stroke clinical trials resource for novel exploratory analyses. *International Journal of Stroke*, **2012**, 7, 133-8	6.3	70
90	Establishing final infarct volume: stroke lesion evolution past 30 days is insignificant. *Stroke*, **2008**, 39, 2765-8	6.7	69
89	Vascular occlusion enables selecting acute ischemic stroke patients for treatment with desmoteplase. *Stroke*, **2012**, 43, 1561-6	6.7	68
88	Impact of establishing a primary stroke center at a community hospital on the use of thrombolytic therapy: the NINDS Suburban Hospital Stroke Center experience. *Stroke*, **2003**, 34, e55-7	6.7	67
87	Translational Stroke Research: Vision and Opportunities. *Stroke*, **2017**, 48, 2632-2637	6.7	62
86	Trial Design and Reporting Standards for Intraarterial Cerebral Thrombolysis for Acute Ischemic Stroke. *Journal of Vascular and Interventional Radiology*, **2003**, 14, E1-E31	2.4	62

85	A phantom for diffusion-weighted imaging of acute stroke. *Journal of Magnetic Resonance Imaging*, **1998**, 8, 1349-54	5.6	61
84	Stromal-derived factor-1[alpha] correlates with circulating endothelial progenitor cells and with acute lesion volume in stroke patients. *Stroke*, **2011**, 42, 618-25	6.7	57
83	Relationship between magnetic resonance arterial patency and perfusion-diffusion mismatch in acute ischemic stroke and its potential clinical use. *Archives of Neurology*, **2001**, 58, 1069-74		53
82	Refinement of the magnetic resonance diffusion-perfusion mismatch concept for thrombolytic patient selection: insights from the desmoteplase in acute stroke trials. *Stroke*, **2012**, 43, 2313-8	6.7	51
81	Rising statin use and effect on ischemic stroke outcome. *BMC Medicine*, **2004**, 2, 4	11.4	50
80	A cognitive-motor network demonstrated by positron emission tomography. *Neuropsychologia*, **1983**, 21, 601-6	3.2	50
79	STAR-HASTE: perfusion imaging without magnetic susceptibility artifact. *Magnetic Resonance in Medicine*, **1997**, 38, 404-8	4.4	49
78	Silent ischemic lesion recurrence on magnetic resonance imaging predicts subsequent clinical vascular events. *Archives of Neurology*, **2006**, 63, 1730-3		47
77	Decreases in frontal and parietal lobe regional cerebral blood flow related to habituation. *Journal of Cerebral Blood Flow and Metabolism*, **1992**, 12, 546-53	7.3	46
76	Effect of the Glycine Antagonist Gavestinel on cerebral infarcts in acute stroke patients, a randomized placebo-controlled trial: The GAIN MRI Substudy. *Cerebrovascular Diseases*, **2006**, 21, 106-11	3.2	45
75	Intravenous alteplase for stroke with unknown time of onset guided by advanced imaging: systematic review and meta-analysis of individual patient data. *Lancet, The*, **2020**, 396, 1574-1584	40	44
74	Cerebral spinal fluid contamination of the measurement of the apparent diffusion coefficient of water in acute stroke. *Magnetic Resonance in Medicine*, **2002**, 48, 478-86	4.4	44
73	Hypertension-induced vascular remodeling contributes to reduced cerebral perfusion and the development of spontaneous stroke in aged SHRSP rats. *Journal of Cerebral Blood Flow and Metabolism*, **2010**, 30, 827-36	7.3	42
72	Quantitative measurements of relative fluid-attenuated inversion recovery (FLAIR) signal intensities in acute stroke for the prediction of time from symptom onset. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 76-84	7.3	40
71	The reproducibility of the 133Xe inhalation technique in resting studies: task order and sex related effects in healthy young adults. *Journal of Cerebral Blood Flow and Metabolism*, **1987**, 7, 702-8	7.3	40
70	A pragmatic approach using magnetic resonance imaging to treat ischemic strokes of unknown onset time in a thrombolytic trial. *Stroke*, **2012**, 43, 2331-5	6.7	38
69	Multi-center prediction of hemorrhagic transformation in acute ischemic stroke using permeability imaging features. *Magnetic Resonance Imaging*, **2013**, 31, 961-9	3.3	37
68	Use of diffusion and perfusion magnetic resonance imaging as a tool in acute stroke clinical trials. *Current Controlled Trials in Cardiovascular Medicine*, **2001**, 2, 38-44		36

67	New brain infarcts on magnetic resonance imaging after coronary artery bypass graft surgery: lesion patterns, mechanism, and predictors. *Annals of Neurology*, **2014**, 76, 347-55	9.4	35
66	Pseudocontinuous arterial spin labeling quantifies relative cerebral blood flow in acute stroke. *Stroke*, **2012**, 43, 753-8	6.7	35
65	Significance of early CT signs in acute stroke. A CT scan-diffusion MRI study. *Cerebrovascular Diseases*, **2002**, 13, 47-56	3.2	35
64	Increased plasma and tissue MMP levels are associated with BCSFB and BBB disruption evident on post-contrast FLAIR after experimental stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2010** , 30, 1188-99	7.3	34
63	Measurement of glutathione in normal volunteers and stroke patients at 3T using J-difference spectroscopy with minimized subtraction errors. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 263-70	5.6	34
62	Comparison of the BOLD- and EPISTAR-technique for functional brain imaging by using signal detection theory. *Magnetic Resonance in Medicine*, **1996**, 36, 249-55	4.4	33
61	Development and validation of a simple conversion model for comparison of intracerebral hemorrhage volumes measured on CT and gradient recalled echo MRI. *Stroke*, **2008**, 39, 2017-20	6.7	32
60	Verification of enhancement of the CSF space, not parenchyma, in acute stroke patients with early blood-brain barrier disruption. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 882-6	7.3	29
59	More accurate identification of reversible ischemic injury in human stroke by cerebrospinal fluid suppressed diffusion-weighted imaging. *Stroke*, **2004**, 35, 1100-6	6.7	29
58	The association between neurological deficit in acute ischemic stroke and mean transit time: comparison of four different perfusion MRI algorithms. *Neuroradiology*, **2006**, 48, 69-77	3.2	26
57	Lesion volume change after treatment with tissue plasminogen activator can discriminate clinical responders from nonresponders. *Stroke*, **2007**, 38, 2919-23	6.7	26
56	Reversal of Perfusion and Diffusion Abnormalities After Intravenous Thrombolysis for a Lacunar Infarction. *Journal of Neuroimaging*, **2003**, 13, 152-154	2.8	26
55	Update on stroke. *Current Opinion in Neurology*, **2004**, 17, 447-51	7.1	26
54	Reperfusion-associated hemorrhagic transformation in SHR rats: evidence of symptomatic parenchymal hematoma. *Stroke*, **2008**, 39, 3405-10	6.7	25
53	Reversible diffusion-weighted imaging lesions in acute ischemic stroke: A systematic review. *Neurology*, **2020**, 94, 571-587	6.5	24
52	Validity of acute stroke lesion volume estimation by diffusion-weighted imaging-Alberta Stroke Program Early Computed Tomographic Score depends on lesion location in 496 patients with middle cerebral artery stroke. *Stroke*, **2014**, 45, 3583-8	6.7	24
51	Trauma-Specific Brain Abnormalities in Suspected Mild Traumatic Brain Injury Patients Identified in the First 48 Hours after Injury: A Blinded Magnetic Resonance Imaging Comparative Study Including Suspected Acute Minor Stroke Patients. *Journal of Neurotrauma*, **2017**, 34, 23-30	5.4	23
50	Assessing reperfusion with whole-brain arterial spin labeling: a noninvasive alternative to gadolinium. *Stroke*, **2014**, 45, 456-61	6.7	23

49	Therapeutic time window of thrombolytic therapy following stroke. *Current Atherosclerosis Reports*, **2004**, 6, 288-94	6	23
48	Imaging in StrokeNet: Realizing the Potential of Big Data. *Stroke*, **2015**, 46, 2000-6	6.7	21
47	Negative diffusion-weighted imaging after intravenous tissue-type plasminogen activator is rare and unlikely to indicate averted infarction. *Stroke*, **2013**, 44, 1629-34	6.7	21
46	CT-NIHSS mismatch does not correlate with MRI diffusion-perfusion mismatch. *Stroke*, **2007**, 38, 2079-84	6.7	20
45	Reperfusion half-life: a novel pharmacodynamic measure of thrombolytic activity. *Stroke*, **2008**, 39, 2148-50	6.7	18
44	Circulating CD133+CD34+ progenitor cells inversely correlate with soluble ICAM-1 in early ischemic stroke patients. *Journal of Translational Medicine*, **2011**, 9, 145	8.5	17
43	Visual perfusion-diffusion mismatch is equivalent to quantitative mismatch. *Stroke*, **2011**, 42, 1010-4	6.7	17
42	Silent New Brain Lesions: Innocent Bystander or Guilty Party?. *Journal of Stroke*, **2016**, 18, 38-49	5.6	16
41	Silent new ischemic lesions after index stroke and the risk of future clinical recurrent stroke. *Neurology*, **2016**, 86, 277-85	6.5	14
40	Imaging developing brain infarction. *Current Opinion in Neurology*, **1999**, 12, 65-71	7.1	14
39	A genomic profile of the immune response to stroke with implications for stroke recovery. *Biological Research for Nursing*, **2015**, 17, 248-56	2.6	13
38	Risk of recurrent stroke in patients with silent brain infarction in the Prevention Regimen for Effectively Avoiding Second Strokes (PRoFESS) imaging substudy. *Stroke*, **2012**, 43, 350-5	6.7	13
37	Editorial comment--Is there a perihematomal ischemic penumbra? More questions and an overlooked clue. *Stroke*, **2003**, 34, 1680	6.7	11
36	Rationale and Design of a Statewide Cohort to examine efficient resource utilization for patients with Intracerebral hemorrhage (EnRICH). *BMC Neurology*, **2018**, 18, 31	3.1	8
35	Imaging. *Stroke*, **2005**, 36, 196-9	6.7	8
34	Reversal of perfusion and diffusion abnormalities after intravenous thrombolysis for a lacunar infarction **2003**, 13, 152-4		8
33	Stroke imaging research road map. *Neuroimaging Clinics of North America*, **2011**, 21, 239-45, ix	3	7
32	STAR MR angiography for rapid detection of vascular abnormalities in patients with acute cerebrovascular disease. *Stroke*, **1997**, 28, 1211-5	6.7	7

31	Stroke MRI **2003**,		7
30	Stroke Treatment Academic Industry Roundtable Recommendations for Individual Data Pooling Analyses in Stroke. *Stroke*, **2016**, 47, 2154-9	6.7	6
29	Pilot results of in vivo brain glutathione measurements in stroke patients. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 2118-21	7.3	6
28	Advances in imaging 2005. *Stroke*, **2006**, 37, 297-8	6.7	6
27	Mismatch and defuse: harvesting the riches of multicenter neuroimaging-based stroke studies. *Stroke*, **2007**, 38, 1718-9	6.7	6
26	Reversal of Perfusion and Diffusion Abnormalities After Intravenous Thrombolysis for a Lacunar Infarction **2003**, 13, 152		5
25	Association between neurologic improvement with decline in blood pressure and recanalization in stroke. *JAMA Neurology*, **2014**, 71, 1555-8	17.2	4
24	Review : Mapping Brain Pathophysiology and Higher Cortical Function with Magnetic Resonance Imaging. *Neuroscientist*, **1995**, 1, 221-235	7.6	3
23	Direct Assessment of Health Utilities Using the Standard Gamble Among Patients With Primary Intracerebral Hemorrhage. *Circulation: Cardiovascular Quality and Outcomes*, **2019**, 12, e005606	5.8	3
22	Impact of Lesion Load Thresholds on Alberta Stroke Program Early Computed Tomographic Score in Diffusion-Weighted Imaging. *Frontiers in Neurology*, **2018**, 9, 273	4.1	2
21	Optimizing stroke clinical trial design: estimating the proportion of eligible patients. *Stroke*, **2010**, 41, 2236-8	6.7	2
20	SELECTion criteria for large core trials: dogma or data?. *Journal of NeuroInterventional Surgery*, **2021**, 13, 500-504	7.8	2
19	End of life: Expert care and support, not physician-hastened death. *Neurology*, **2019**, 93, 729-734	6.5	2
18	Magnetic Resonance Imaging of Cerebrovascular Diseases **2011**, 882-909		1
17	Limitations of current brain imaging modalities in stroke **2003**, 15-30		1
16	Stroke MRI in intracranial hemorrhage **2003**, 103-112		1
15	Clinical role of echoplanar MRI in stroke **2003**, 175-190		1
14	Magnetic resonance imaging in stroke trials **2002**, 339-352		1

13	Perfusion imaging with arterial spin labelling **2003**, 161-174		0
12	Should Primary Stroke Centers Perform Advanced Imaging?. *Stroke*, **2022**, STROKEAHA121033528	6.7	0
11	Magnetic Resonance Imaging of Cerebrovascular Diseases **2016**, 768-789.e9		
10	MRI versus CT in acute stroke □AuthorsQreply. *Lancet, The*, **2007**, 369, 1342	40	
9	Seeing the Brain So We Can Save It: The Evolution of Magnetic Resonance Imaging as a Clinical Tool **2005**, 3-19		
8	The importance of specific diagnosis in stroke patient management **2003**, 1-14		
7	Localization of stroke syndromes using diffusion-weighted MR imaging (DWI) **2003**, 121-134		
6	New MR techniques to select patients for thrombolysis in acute stroke **2003**, 207-222		
5	MRI as a tool in stroke drug development **2003**, 223-232		
4	Functional MRI and stroke **2003**, 251-262		
3	Stroke Imaging/Diffusion□erfusion MRI **2003**, 400-403		
2	Patients with large brain infarcts might also benefit from thrombectomy. *Lancet Neurology, The*, **2019**, 18, 22-23	24.1	
1	Advanced Imaging in the Era of Tissue-Based Treatment for Acute Ischemic Stroke□ Practical Review. *Current Treatment Options in Neurology*, **2021**, 23, 1	4.4	