Richard Frayne

List of Publications by Year
in descending order

238	11,839	57758 44	31849 101
papers	citations	h-index	g-index

243	243	243	12423
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neuroimaging standards for research into small vessel disease and its contribution to ageing and neurodegeneration. Lancet Neurology, The, 2013, 12, 822-838.	10.2	3,919
2	Time-resolved contrast-enhanced 3D MR angiography. Magnetic Resonance in Medicine, 1996, 36, 345-351.	3.0	861
3	Efficacy and safety of nerinetide for the treatment of acute ischaemic stroke (ESCAPE-NA1): a multicentre, double-blind, randomised controlled trial. Lancet, The, 2020, 395, 878-887.	13.7	400
4	Imaging of the brain in acute ischaemic stroke: comparison of computed tomography and magnetic resonance diffusion-weighted imaging. Journal of Neurology, Neurosurgery and Psychiatry, 2005, 76, 1528-1533.	1.9	314
5	Characterization of common carotid artery blood-flow waveforms in normal human subjects. Physiological Measurement, 1999, 20, 219-240.	2.1	279
6	Susceptibility-Weighted Imaging is More Reliable Than T2*-Weighted Gradient-Recalled Echo MRI for Detecting Microbleeds. Stroke, 2013, 44, 2782-2786.	2.0	220
7	Time-resolved Three-dimensional Contrast-enhanced MR Angiography of the Peripheral Vessels. Radiology, 2002, 225, 43-52.	7.3	152
8	Magnetic Resonance Imaging at 3.0 Tesla: Challenges and Advantages in Clinical Neurological Imaging. Investigative Radiology, 2003, 38, 385-402.	6.2	152
9	Early cerebral small vessel disease and brain volume, cognition, and gait. Annals of Neurology, 2015, 77, 251-261.	5.3	150
10	Quantifying bloodâ€brain barrier leakage in small vessel disease: Review and consensus recommendations. Alzheimer's and Dementia, 2019, 15, 840-858.	0.8	134
11	An open, multi-vendor, multi-field-strength brain MR dataset and analysis of publicly available skull stripping methods agreement. NeuroImage, 2018, 170, 482-494.	4.2	131
12	A General Description of Linear Time-Frequency Transforms and Formulation of a Fast, Invertible Transform That Samples the Continuous S-Transform Spectrum Nonredundantly. IEEE Transactions on Signal Processing, 2010, 58, 281-290.	5.3	118
13	Neurovascular decoupling is associated with severity of cerebral amyloid angiopathy. Neurology, 2013, 81, 1659-1665.	1.1	118
14	Time-Dependent Computed Tomographic Perfusion Thresholds for Patients With Acute Ischemic Stroke. Stroke, 2015, 46, 3390-3397.	2.0	114
15	An Improved Scoring System for Identifying Patients at High Early Risk of Stroke and Functional Impairment after an Acute Transient Ischemic Attack or Minor Stroke. International Journal of Stroke, 2008, 3, 3-10.	5.9	110
16	A rapid 2D time-resolved variable-ratek-space sampling MR technique for passive catheter tracking during endovascular procedures. Magnetic Resonance in Medicine, 1998, 40, 356-362.	3.0	107
17	Contrast-enhanced 3D MR DSA of the carotid artery bifurcation: preliminary study of comparison with unenhanced 2D and 3D time-of-flight MR angiography.. Radiology, 1998, 208, 447-451.	7.3	106
18	Visualizing three-dimensional flow with simulated streamlines and three-dimensional phase-contrast MR imaging. Journal of Magnetic Resonance Imaging, 1992, 2, 143-153.	3.4	103

#	Article	IF	Citations
19	MR Perfusion and Diffusion in Acute Ischemic Stroke: Human Gray and White Matter have Different Thresholds for Infarction. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1280-1287.	4.3	101
20	Real-Time MR Imaging-guided Passive Catheter Tracking with Use of Gadolinium-filled Catheters. Journal of Vascular and Interventional Radiology, 2000, 11, 1079-1085.	0.5	99
21	Reliability of Assessing Percentage of Diffusion-Perfusion Mismatch. Stroke, 2003, 34, 1681-1683.	2.0	98
22	3D Time-resolved contrast-enhanced MR DSA: Advantages and tradeoffs. Magnetic Resonance in Medicine, 1998, 40, 571-581.	3.0	93
23	Cavitation After Acute Symptomatic Lacunar Stroke Depends on Time, Location, and MRI Sequence. Stroke, 2012, 43, 1837-1842.	2.0	92
24	Reduced Blood Flow in Normal White Matter Predicts Development of Leukoaraiosis. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1610-1615.	4.3	90
25	Cerebral Amyloid Angiopathy Is Associated With Executive Dysfunction and Mild Cognitive Impairment. Stroke, 2016, 47, 2010-2016.	2.0	90
26	Accuracy of MR phase contrast velocity measurements for unsteady flow. Journal of Magnetic Resonance Imaging, 1995, 5, 428-431.	3.4	86
27	Removing the effect of SVD algorithmic artifacts present in quantitative MR perfusion studies. Magnetic Resonance in Medicine, 2004, 51, 631-634.	3.0	86
28	METACOHORTS for the study of vascular disease and its contribution to cognitive decline and neurodegeneration: An initiative of the Joint Programme for Neurodegenerative Disease Research. Alzheimer's and Dementia, 2016, 12, 1235-1249.	0.8	82
29	Acute Intravenousâ€“Intra-Arterial Revascularization Therapy for Severe Ischemic Stroke. Stroke, 2002, 33, 279-282.	2.0	81
30	MR-guided Angioplasty of Renal Artery Stenosis in a Pig Model: A Feasibility Study. Journal of Vascular and Interventional Radiology, 2000, 11, 373-381.	0.5	79
31	Reliability of neuroanatomical measurements in a multisite longitudinal study of youth at risk for psychosis. Human Brain Mapping, 2014, 35, 2424-2434.	3.6	76
32	A systematic literature review of the effect of carotid atherosclerosis on local vessel stiffness and elasticity. Atherosclerosis, 2015, 243, 211-222.	0.8	75
33	Computer-controlled flow simulator for MR flow studies. Journal of Magnetic Resonance Imaging, 1992, 2, 605-612.	3.4	73
34	Quantomo: Validation of a Computer-Assisted Methodology for the Volumetric Analysis of Intracerebral Haemorrhage. International Journal of Stroke, 2011, 6, 302-305.	5.9	73
35	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 191-204.	2.4	65
36	Comparison of pre- and postcontrast 3D time-of-flight MR angiography for the evaluation of distal intracranial branch occlusions in acute ischemic stroke. American Journal of Neuroradiology, 2002, 23, 557-67.	2.4	57

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37	A geometrically accurate vascular phantom for comparative studies of x-ray, ultrasound, and magnetic resonance vascular imaging: construction and geometrical verification. Medical Physics, 1993, 20, 415-425.	3.0	55
38	White Matter Structural Connectivity Is Not Correlated to Cortical Resting-State Functional Connectivity over the Healthy Adult Lifespan. Frontiers in Aging Neuroscience, 2017, 9, 144.	3.4	51
39	Minimizing interference from magnetic resonance imagers during electrocardiography. IEEE Transactions on Biomedical Engineering, 1998, 45, 160-164.	4.2	48
40	3D MR DSA: Effects of injection protocol and image masking. Journal of Magnetic Resonance Imaging, 2000, 12, 476-487.	3.4	47
41	Differences in patellofemoral contact mechanics associated with patellofemoral pain syndrome. Journal of Biomechanics, 2009, 42, 2802-2807.	2.1	46
42	Frequency response of retrospectively gated phase-contrast MR imaging: Effect of interpolation. Journal of Magnetic Resonance Imaging, 1993, 3, 907-917.	3.4	45
43	Endovascular Treatment of Experimental Canine Aneurysms: Feasibility with MR Imaging Guidance. Radiology, 2000, 215, 516-519.	7.3	45
44	Determination of Optimal Injection Parameters for Intraarterial Gadolinium-enhanced MR Angiography. Journal of Vascular and Interventional Radiology, 2000, 11, 1277-1284.	0.5	45
45	The impact of partial-volume effects in dynamic susceptibility contrast magnetic resonance perfusion imaging. Journal of Magnetic Resonance Imaging, 2005, 22, 390-399.	3.4	45
46	A prospective harmonized multicenter DTI study of cerebral white matter degeneration in ALS. Neurology, 2020, 95, e943-e952.	1.1	45
47	Signalâ€toâ€noise ratio effects in quantitative cerebral perfusion using dynamic susceptibility contrast agents. Magnetic Resonance in Medicine, 2003, 49, 122-128.	3.0	44
48	Title is missing!. Investigative Radiology, 2003, 38, 385-402.	6.2	44
49	Intraarterial Gadolinium-enhanced 2D and 3D MR Angiography: A Preliminary Study. Journal of Vascular and Interventional Radiology, 1999, 10, 1315-1321.	0.5	42
50	MR imaging of carotid webs. Neuroradiology, 2017, 59, 361-365.	2.2	41
51	Therapeutic Strategies and Drug Development for Vascular Cognitive Impairment. Journal of the American Heart Association, 2017, 6, .	3.7	39
52	Cerebrovascular MRI: a review of stateâ€ofâ€theâ€art approaches, methods and techniques. NMR in Biomedicine, 2015, 28, 767-791.	2.8	38
53	Understanding acceleration-induced displacement artifacts in phase-contrast MR velocity measurements. Journal of Magnetic Resonance Imaging, 1995, 5, 207-215.	3.4	35
54	A comparison of images generated from diffusion-weighted and diffusion-tensor imaging data in hyper-acute stroke. Journal of Magnetic Resonance Imaging, 2004, 20, 193-200.	3.4	35

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55	MR Angiography Compared to Conventional Selective Angiography in Acute Stroke. Canadian Journal of Neurological Sciences, 2006, 33, 58-62.	0.5	35
56	Orientation of tendons in vivo with active and passive knee muscles. Journal of Biomechanics, 2005, 38, 1780-1788.	2.1	34
57	A fast discrete S-transform for biomedical signal processing. , 2008, 2008, 2586-9.		34
58	Convolutional neural networks for skull-stripping in brain MR imaging using silver standard masks. Artificial Intelligence in Medicine, 2019, 98, 48-58.	6.5	33
59	The probability of middle cerebral artery MRA flow signal abnormality with quantified CT ischaemic change: targets for future therapeutic studies. Journal of Neurology, Neurosurgery and Psychiatry, 2004, 75, 1426-1430.	1.9	31
60	Phase contrast MR imaging measurements of blood flow in healthy human cerebral vessel segments. Physiological Measurement, 2015, 36, 1517-1527.	2.1	31
61	Effect ofb value on contrast during diffusion-weighted magnetic resonance imaging assessment of acute ischemic stroke. Journal of Magnetic Resonance Imaging, 2002, 15, 591-596.	3.4	29
62	Contrast-enhanced MR angiography of the intracranial circulation. Magnetic Resonance Imaging Clinics of North America, 2003, 11, 599-614.	1.1	29
63	3-Tesla versus 1.5-Tesla Magnetic Resonance Diffusion and Perfusion Imaging in Hyperacute Ischemic Stroke. Cerebrovascular Diseases, 2007, 24, 361-368.	1.7	29
64	Oculomotor Cognitive Control Abnormalities in Australian Rules Football Players with a History of Concussion. Journal of Neurotrauma, 2018, 35, 730-738.	3.4	29
65	Final infarct volume estimation on 1-week follow-up MR imaging is feasible and is dependent on recanalization status. NeuroImage: Clinical, 2015, 7, 1-6.	2.7	28
66	A Hybrid Frequency-Domain/Image-Domain Deep Network for Magnetic Resonance Image Reconstruction. , 2019, , .		28
67	Dual-domain cascade of U-nets for multi-channel magnetic resonance image reconstruction. Magnetic Resonance Imaging, 2020, 71, 140-153.	1.8	28
68	An alternative viewpoint of the similarities and differences of SVD and FT deconvolution algorithms used for quantitative MR perfusion studies. Magnetic Resonance Imaging, 2005, 23, 481-492.	1.8	27
69	Planimetric Hematoma Measurement in Patients With Intraventricular Hemorrhage. Stroke, 2012, 43, 1961-1963.	2.0	27
70	Measurement of fluid-shear rate by fourier-encoded velocity imaging. Magnetic Resonance in Medicine, 1995, 34, 378-387.	3.0	25
71	Frequency response of multi-phase segmentedk-space phase-contrast. Magnetic Resonance in Medicine, 1996, 35, 755-762.	3.0	25
72	3D nonâ€contrastâ€enhanced MR angiography with balanced steadyâ€state free precession dixon method. Magnetic Resonance in Medicine, 2008, 59, 430-433.	3.0	25

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73	Atherosclerosis Imaging and the Canadian Atherosclerosis Imaging Network. Canadian Journal of Cardiology, 2013, 29, 297-303.	1.7	25
74	Involvement of the dentate nucleus in the pathophysiology of amyotrophic lateral sclerosis: A multi-center and multi-modal neuroimaging study. NeuroImage: Clinical, 2020, 28, 102385.	2.7	25
75	Cross-sectional and longitudinal differences in peak skeletonized white matter mean diffusivity in cerebral amyloid angiopathy. NeuroImage: Clinical, 2020, 27, 102280.	2.7	25
76	MR Angiography with Three-dimensional MR Digital Subtraction Angiography. Topics in Magnetic Resonance Imaging, 1996, 8, 366???388.	1.2	24
77	Analytical characterization of RF phaseâ€cycled balanced steadyâ€state free precession. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2009, 34A, 133-143.	0.5	24
78	Diffusion and Perfusion MR Imaging of Acute Ischemic Stroke. Magnetic Resonance Imaging Clinics of North America, 2009, 17, 291-313.	1.1	24
79	Incidental Magnetic Resonance Diffusion-Weighted Imagingâ€“Positive Lesions Are Rare in Neurologically Asymptomatic Community-Dwelling Adults. Stroke, 2014, 45, 2115-2117.	2.0	24
80	Longitudinal decrease in blood oxygenation level dependent response in cerebral amyloid angiopathy. NeuroImage: Clinical, 2016, 11, 461-467.	2.7	24
81	MR measurement and numerical simulation of steady flow in an end-to-side anastomosis model. Journal of Biomechanics, 1996, 29, 537-542.	2.1	23
82	A Novel Method to Derive Separate Gray and White Matter Cerebral Blood Flow Measures from MR Imaging of Acute Ischemic Stroke Patients. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1236-1243.	4.3	23
83	Is correction necessary when clinically determining quantitative cerebral perfusion parameters from multi-slice dynamic susceptibility contrast MR studies?. Physics in Medicine and Biology, 2006, 51, 407-424.	3.0	23
84	Effects of through-plane myocardial motion on phase-difference and complex-difference measurements of absolute coronary artery flow. Journal of Magnetic Resonance Imaging, 1996, 6, 113-123.	3.4	22
85	Acute Ischemic Stroke: Accuracy of Diffusion-weighted MR Imagingâ€”Effects ofbValue and Cerebrospinal Fluid Suppression. Radiology, 2006, 238, 232-239.	7.3	22
86	Cortical Microinfarcts on 3T Magnetic Resonance Imaging in Cerebral Amyloid Angiopathy. Stroke, 2018, 49, 1899-1905.	2.0	22
87	Cerebral atrophy in amyotrophic lateral sclerosis parallels the pathological distribution of TDP43. Brain Communications, 2020, 2, fcaa061.	3.3	22
88	Effects of physiologic waveform variability in triggered MR imaging: Theoretical analysis. Journal of Magnetic Resonance Imaging, 1994, 4, 853-867.	3.4	21
89	Validation of Injection Parameters for Catheter-Directed Intraarterial Gadolinium-Enhanced MR Angiography. Academic Radiology, 2002, 9, 172-185.	2.5	21
90	Differences between middle cerebral artery blood velocity waveforms of young and postmenopausal women. Menopause, 2006, 13, 303-313.	2.0	21

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91	PerfTool: A software platform for investigating bolusâ€tracking perfusion imaging quantification strategies. Journal of Magnetic Resonance Imaging, 2007, 25, 653-659.	3.4	21
92	Robust dynamic susceptibility contrast MR perfusion using 4D nonlinear noise filters. Journal of Magnetic Resonance Imaging, 2007, 26, 1514-1522.	3.4	20
93	A comparison of texture quantification techniques based on the Fourier and S transforms. Medical Physics, 2008, 35, 4998-5008.	3.0	20
94	High-resolution T2-FLAIR and non-contrast CT brain atlas of the elderly. Scientific Data, 2020, 7, 56.	5.3	20
95	Rapid measurement of Gd-DTPA extraction fraction in a dialysis system using echo-planar imaging. Medical Physics, 1997, 24, 1907-1913.	3.0	19
96	Effect of and correction for in-plane myocardial motion on estimates of coronary-volume flow rates. Journal of Magnetic Resonance Imaging, 1997, 7, 815-828.	3.4	19
97	Improved dynamic susceptibility contrast (DSC)â€MR perfusion estimates by motion correction. Journal of Magnetic Resonance Imaging, 2007, 26, 1167-1172.	3.4	19
98	Deep Learning in Large and Multi-Site Structural Brain MR Imaging Datasets. Frontiers in Neuroinformatics, 2021, 15, 805669.	2.5	19
99	Method for rapidly determining and reconstructing the peak arterial frame from a time-resolved CE-MRA exam. Magnetic Resonance in Medicine, 2000, 44, 817-820.	3.0	18
100	Unenhanced MR Angiography of the Renal Arteries with Balanced Steady-State Free Precession Dixon Method. American Journal of Roentgenology, 2008, 191, 243-246.	2.2	18
101	Atlas-Based Topographical Scoring for Magnetic Resonance Imaging of Acute Stroke. Stroke, 2010, 41, 455-460.	2.0	18
102	Cerebrovascular reactivity in cerebral amyloid angiopathy, Alzheimer disease, and mild cognitive impairment. Neurology, 2020, 95, e1333-e1340.	1.1	18
103	Advantages of frequency-domain modeling in dynamic-susceptibility contrast magnetic resonance cerebral blood flow quantification. Magnetic Resonance in Medicine, 2005, 53, 700-707.	3.0	17
104	Noninvasive imaging is improving but digital subtraction angiography remains the gold standard. Neurology, 2007, 68, 2057-2058.	1.1	17
105	Microbleeding on MRI as a Marker for Hemorrhage After Stroke Thrombolysis. Stroke, 2002, 33, 1457-1458.	2.0	16
106	Surface Functionalization of Polyethylene for Magnetic Resonance Signal-Enhancing Coating Materials. Chemistry of Materials, 2002, 14, 1914-1920.	6.7	16
107	Reexamining the quantification of perfusion MRI data in the presence of bolus dispersion. Journal of Magnetic Resonance Imaging, 2007, 25, 639-643.	3.4	16
108	Analysis Techniques for Congruence of the Patellofemoral Joint. Journal of Biomechanical Engineering, 2009, 131, 124503.	1.3	16

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109	Evolution of hyperacute stroke over 6 hours using serial MR perfusion and diffusion maps. Journal of Magnetic Resonance Imaging, 2009, 29, 1262-1270.	3.4	16
110	MR virtual colonography using hyperpolarized3He as an endoluminal contrast agent: Demonstration of feasibility. Magnetic Resonance in Medicine, 2000, 44, 813-816.	3.0	15
111	Automatic Surface Matching for the Registration of LIDAR Data and MR Imagery. ETRI Journal, 2006, 28, 162-174.	2.0	15
112	MR image reconstruction of sparsely sampled 3D k-space data by projection-onto-convex sets. Magnetic Resonance Imaging, 2006, 24, 761-773.	1.8	15
113	Realistic breast models for second generation tissue sensing adaptive radar system. , 2007, , .		15
114	Longitudinal Brain Atrophy Rates in Transient Ischemic Attack and Minor Ischemic Stroke Patients and Cognitive Profiles. Frontiers in Neurology, 2019, 10, 18.	2.4	15
115	The Use of Random Forests to Classify Amyloid Brain PET. Clinical Nuclear Medicine, 2019, 44, 784-788.	1.3	15
116	Diffusion-weighted imaging lesion growth occurs despite recanalization in acute ischemic stroke: Implications for future treatment trials. International Journal of Stroke, 2019, 14, 257-264.	5.9	15
117	Frequency response of prospectively gated phase-contrast MR velocity measurements. Journal of Magnetic Resonance Imaging, 1995, 5, 65-73.	3.4	14
118	Reassessing the clinical efficacy of two MR quantitative DSC PWI CBF algorithms following cross-calibration with PET images. Physics in Medicine and Biology, 2005, 50, 1251-1263.	3.0	14
119	Control of end-tidal PCO2 reduces middle cerebral artery blood velocity variability: Implications for physiological neuroimaging. NeuroImage, 2006, 29, 1272-1277.	4.2	14
120	Assessment of brain aneurysms by using high-resolution magnetic resonance angiography after endovascular coil delivery. Journal of Neurosurgery, 2007, 107, 283-289.	1.6	14
121	Dynamic phantom with heart, lung, and blood motion for initial validation of MRI techniques. Journal of Magnetic Resonance Imaging, 2011, 34, 941-946.	3.4	14
122	Identification of neurovascular changes associated with cerebral amyloid angiopathy from subject-specific hemodynamic response functions. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3433-3445.	4.3	14
123	Age-related differences in cerebral blood flow and cortical thickness with an application to age prediction. Neurobiology of Aging, 2020, 95, 131-142.	3.1	14
124	Cerebrovascular Reactivity Across the Entire Brain in Cerebral Amyloid Angiopathy. Neurology, 2022, 98, .	1.1	14
125	Passive catheter visualization in magnetic resonanceâ€“guided endovascular therapy using multicycle projection dephasers. Journal of Magnetic Resonance Imaging, 2006, 24, 160-167.	3.4	13
126	Algebraic T2 estimation improves detection of right temporal lobe epilepsy by MR T2 relaxometry. NeuroImage, 2011, 58, 189-197.	4.2	13

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127	A longitudinal magnetic resonance imaging study of neurodegenerative and small vessel disease, and clinical cognitive trajectories in non demented patients with transient ischemic attack: the PREVENT study. BMC Geriatrics, 2018, 18, 163.	2.7	13
128	Cerebral degeneration in amyotrophic lateral sclerosis. Neurology: Clinical Practice, 2019, 9, 400-407.	1.6	13
129	Fluid-attenuated inversion recovery preparation: not an improvement over conventional diffusion-weighted imaging at 3T in acute ischemic stroke. American Journal of Neuroradiology, 2004, 25, 1653-8.	2.4	13
130	MRI of ischemic stroke in canines: Applications for monitoring intraarterial thrombolysis. Journal of Magnetic Resonance Imaging, 2007, 26, 1421-1428.	3.4	12
131	Single-subject voxel-based relaxometry for clinical assessment of temporal lobe epilepsy. Epilepsy Research, 2009, 86, 23-31.	1.6	12
132	Validity of the diagnostic criteria for chronic cerebrospinal venous insufficiency and association with multiple sclerosis. Cmaj, 2014, 186, E418-E426.	2.0	12
133	Flow and pressure measurements in aneurysms and arteriovenous malformations with phase contrast MR imaging. Magnetic Resonance Imaging, 2016, 34, 1322-1328.	1.8	12
134	The Use of Random Forests to Identify Brain Regions on Amyloid and FDG PET Associated With MoCA Score. Clinical Nuclear Medicine, 2020, 45, 427-433.	1.3	12
135	Enhanced Deep-Learning-Based Magnetic Resonance Image Reconstruction by Leveraging Prior Subject-Specific Brain Imaging: Proof-of-Concept Using a Cohort of Presumed Normal Subjects. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1126-1136.	10.8	12
136	Progressive Neurochemical Abnormalities in Cognitive and Motor Subgroups of Amyotrophic Lateral Sclerosis. Neurology, 2021, 97, e803-e813.	1.1	12
137	Symptomatic hemorrhage after alteplase therapy not due to silent ischemia. BMC Neurology, 2001, 1, 1.	1.8	11
138	Spaceâ€“time relationship in continuously moving table method for large FOV peripheral contrast-enhanced magnetic resonance angiography. Physics in Medicine and Biology, 2003, 48, 2739-2752.	3.0	11
139	Time-Efficient Breath-Hold Abdominal MRI at 3.0 T. American Journal of Roentgenology, 2006, 187, 649-657.	2.2	11
140	Quantitative Perfusion and Permeability Biomarkers in Brain Cancer from Tomographic CT and MR Images. Biomarkers in Cancer, 2016, 8s2, BIC.S31801.	3.6	11
141	Quantitative susceptibility mapping at 3â€‰T: comparison of acquisition methodologies. NMR in Biomedicine, 2017, 30, e3492.	2.8	11
142	Functional magnetic resonance imaging responses in CADASIL. Journal of the Neurological Sciences, 2017, 375, 248-254.	0.6	11
143	Silver standard masks for data augmentation applied to deep-learning-based skull-stripping. , 2018, , .		11
144	Neuroanatomical associations of the Edinburgh cognitive and Behavioural ALS screen (ECAS). Brain Imaging and Behavior, 2021, 15, 1641-1654.	2.1	11

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145	Deconvolution with simple extrapolation for improved cerebral blood flow measurement in dynamic susceptibility contrast magnetic resonance imaging during acute ischemic stroke. Magnetic Resonance Imaging, 2011, 29, 620-629.	1.8	10
146	Automatic identification of atherosclerosis subjects in a heterogeneous MR brain imaging data set. Magnetic Resonance Imaging, 2019, 62, 18-27.	1.8	10
147	Restoration of Lossy JPEG-Compressed Brain MR Images Using Cross-Domain Neural Networks. IEEE Signal Processing Letters, 2020, 27, 141-145.	3.6	10
148	Hemodynamic alterations measured with phase-contrast MRI in a giant cerebral aneurysm treated with a flow-diverting stent. Radiology Case Reports, 2015, 10, 1109.	0.6	10
149	Novel Magnetic Resonance Signal Enhancing Coating Material. Advanced Materials, 2001, 13, 490-493.	21.0	9
150	Perfusion parameters derived from bolusâ€tracking perfusion imaging are immune to tracer recirculation. Journal of Magnetic Resonance Imaging, 2010, 31, 753-756.	3.4	9
151	A simulationâ€based analysis of the potential of compressed sensing for accelerating passive mr catheter visualization in endovascular therapy. Magnetic Resonance in Medicine, 2010, 63, 473-483.	3.0	9
152	Fluid Attenuated Inversion Recovery (FLAIR) Imaging of the Normal Brain: Comparisons between Under the Conditions of 3.0 Tesla and 1.5 Tesla. Korean Journal of Radiology, 2010, 11, 19.	3.4	9
153	Fast spin echo imaging of carotid artery dynamics. Magnetic Resonance in Medicine, 2015, 74, 1103-1109.	3.0	9
154	Calgary Normative Study: design of a prospective longitudinal study to characterise potential quantitative MR biomarkers of neurodegeneration over the adult lifespan. BMJ Open, 2020, 10, e038120.	1.9	9
155	White matter tract microstructure and cognitive performance after transient ischemic attack. PLoS ONE, 2020, 15, e0239116.	2.5	9
156	Cerebral Amyloid Angiopathy Is Associated With Emotional Dysregulation, Impulse Dyscontrol, and Apathy. Journal of the American Heart Association, 2021, 10, e022089.	3.7	9
157	Stroke Imaging at 3.0 T. Neuroimaging Clinics of North America, 2006, 16, 343-366.	1.0	8
158	Interactive continuously moving table (iCMT) large field-of-view real-time MRI. Magnetic Resonance in Medicine, 2006, 55, 1202-1209.	3.0	8
159	Identifying lesion growth with MR imaging in acute ischemic stroke. Journal of Magnetic Resonance Imaging, 2008, 28, 837-846.	3.4	8
160	Variability of Middle Cerebral Artery Blood Flow with Hypercapnia in Women. Ultrasound in Medicine and Biology, 2008, 34, 730-740.	1.5	8
161	Phase Error Correction in Time-Averaged 3D Phase Contrast Magnetic Resonance Imaging of the Cerebral Vasculature. PLoS ONE, 2016, 11, e0149930.	2.5	8
162	Functional alterations in large-scale resting-state networks of amyotrophic lateral sclerosis: A multi-site study across Canada and the United States. PLoS ONE, 2022, 17, e0269154.	2.5	8

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163	A new method of creating intervertebral disc disruption of various grades. Clinical Biomechanics, 2006, 21, 21-25.	1.2	7
164	The Knee Loading Apparatus: Axial, Anterior, and Compressive Loading With Magnetic Resonance Imaging. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	7
165	Trial of remote ischaemic preconditioning in vascular cognitive impairment (TRIC-VCI): protocol. BMJ Open, 2020, 10, e040466.	1.9	7
166	Distinct patterns of progressive gray and white matter degeneration in amyotrophic lateral sclerosis. Human Brain Mapping, 2022, 43, 1519-1534.	3.6	7
167	Rapid passive MR catheter visualization for endovascular therapy using nonsymmetric truncated k-space sampling strategies. Magnetic Resonance Imaging, 2008, 26, 293-303.	1.8	6
168	Vascular Contributions to Neurodegeneration: Protocol of the COMPASS-ND Study. Canadian Journal of Neurological Sciences, 2021, , 1-8.	0.5	6
169	Cerebral blood flow estimation in vivo using local tissue reference functions. Journal of Magnetic Resonance Imaging, 2009, 29, 183-188.	3.4	5
170	Using X-Ray Mammograms to Assist in Microwave Breast Image Interpretation. International Journal of Biomedical Imaging, 2012, 2012, 1-11.	3.9	5
171	Accelerated passive MR catheter tracking into the carotid artery of canines. Magnetic Resonance Imaging, 2013, 31, 120-129.	1.8	5
172	Interdatabase Variability in Cortical Thickness Measurements. Cerebral Cortex, 2019, 29, 3282-3293.	2.9	5
173	A real-time 3D large field-of-view MRI system with interactive table motion. Concepts in Magnetic Resonance Part B, 2006, 29B, 28-41.	0.7	4
174	Semiautomated Multimodal Breast Image Registration. International Journal of Biomedical Imaging, 2012, 2012, 1-14.	3.9	4
175	Voxel-based relaxometry for cases of an unresolved epilepsy diagnosis. Epilepsy Research, 2012, 99, 46-54.	1.6	4
176	A statistical method for characterizing the noise in nonlinearly reconstructed images from undersampled MR data: The POCS example. Magnetic Resonance Imaging, 2013, 31, 1587-1598.	1.8	4
177	MultisliceT₁-prepared 2D single-shot EPI: analysis of a clinicalT₁mapping method unbiased byB₀orB₁inhomogeneity. NMR in Biomedicine, 2016, 29, 1056-1069.	2.8	4
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