

Roland Bammer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

11,877
citations

52
h-index

108
g-index

123
ext. papers

13,867
ext. citations

6.3
avg, IF

6.06
L-index

#	Paper	IF	Citations
114	MR perfusion imaging: Half-dose gadolinium is half the quality. <i>Journal of Neuroimaging</i> , 2021 , 31, 1014-1019	10.1	1
113	Comparison of Tmax values between full- and half-dose gadolinium perfusion studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 336-341	7.3	1
112	Optimizing a Feature-Based Motion Tracking System for Prospective Head Motion Estimation in MRI and PET/MRI. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 1-1	4.2	
111	Assessment of the DTI-ALPS Parameter Along the Perivascular Space in Older Adults at Risk of Dementia. <i>Journal of Neuroimaging</i> , 2021 , 31, 569-578	2.8	16
110	Distal Medium Vessel Occlusions Can Be Accurately and Rapidly Detected Using Maps. <i>Stroke</i> , 2021 , 52, 3308-3317	6.7	3
109	Marker-free optical stereo motion tracking for in-bore MRI and PET-MRI application. <i>Medical Physics</i> , 2020 , 47, 3321-3331	4.4	7
108	Prognostic value of diffusion-weighted MRI for post-cardiac arrest coma. <i>Neurology</i> , 2020 , 94, e1684-e1692	6.7	18
107	A within-coil optical prospective motion-correction system for brain imaging at 7T. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1661-1671	4.4	9
106	Where have our patients gone? The impact of COVID-19 on stroke imaging and intervention at an Australian stroke center. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2020 , 64, 607-614	1.7	8
105	Comparison of T2*GRE and DSC-PWI for hemorrhage detection in acute ischemic stroke patients: Pooled analysis of the EPITHET, DEFUSE 2, and SENSE 3 stroke studies. <i>International Journal of Stroke</i> , 2020 , 15, 216-225	6.3	2
104	Cerebral Blood Flow Predicts the Infarct Core: New Insights From Contemporaneous Diffusion and Perfusion Imaging. <i>Stroke</i> , 2019 , 50, 2783-2789	6.7	12
103	Automated Detection of Intracranial Large Vessel Occlusions on Computed Tomography Angiography: A Single Center Experience. <i>Stroke</i> , 2019 , 50, 2790-2798	6.7	36
102	Automated Calculation of Alberta Stroke Program Early CT Score: Validation in Patients With Large Hemispheric Infarct. <i>Stroke</i> , 2019 , 50, 3277-3279	6.7	21
101	Fast Automatic Detection of Large Vessel Occlusions on CT Angiography. <i>Stroke</i> , 2019 , 50, 3431-3438	6.7	28
100	Thrombectomy for Stroke at 6 to 16 Hours with Selection by Perfusion Imaging. <i>New England Journal of Medicine</i> , 2018 , 378, 708-718	59.2	2185
99	Time From Imaging to Endovascular Reperfusion Predicts Outcome in Acute Stroke. <i>Stroke</i> , 2018 , 49, 952-957	6.7	16
98	Prospective motion correction using coil-mounted cameras: Cross-calibration considerations. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1911-1921	4.4	24

97	Prospective motion correction for 3D pseudo-continuous arterial spin labeling using an external optical tracking system. <i>Magnetic Resonance Imaging</i> , 2017 , 39, 44-52	3.3	7
96	Prediction of final infarct volume on subacute MRI by quantifying cerebral edema in ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 3077-3084	7.3	14
95	Computed tomographic perfusion to Predict Response to Recanalization in ischemic stroke. <i>Annals of Neurology</i> , 2017 , 81, 849-856	9.4	79
94	A multicenter randomized controlled trial of endovascular therapy following imaging evaluation for ischemic stroke (DEFUSE 3). <i>International Journal of Stroke</i> , 2017 , 12, 896-905	6.3	165
93	Extended hybrid-space SENSE for EPI: Off-resonance and eddy current corrected joint interleaved blip-up/down reconstruction. <i>NeuroImage</i> , 2017 , 153, 97-108	7.9	13
92	A Comparison of Relative Time to Peak and Tmax for Mismatch-Based Patient Selection. <i>Frontiers in Neurology</i> , 2017 , 8, 539	4.1	28
91	Optimal Computed Tomographic Perfusion Scan Duration for Assessment of Acute Stroke Lesion Volumes. <i>Stroke</i> , 2016 , 47, 2966-2971	6.7	12
90	Feasibility of Marker-Free Motion Tracking for Motion-Corrected MRI and PET-MRI 2016 ,		2
89	Plasticity of left perisylvian white-matter tracts is associated with individual differences in math learning. <i>Brain Structure and Function</i> , 2016 , 221, 1337-51	4	33
88	A benchmarking tool to evaluate computer tomography perfusion infarct core predictions against a DWI standard. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 1780-1789	7.3	81
87	Trade-off between angular and spatial resolutions in in vivo fiber tractography. <i>NeuroImage</i> , 2016 , 129, 117-132	7.9	22
86	Acute Stroke Imaging Research Roadmap III Imaging Selection and Outcomes in Acute Stroke Reperfusion Clinical Trials: Consensus Recommendations and Further Research Priorities. <i>Stroke</i> , 2016 , 47, 1389-98	6.7	77
85	Detection of Cortical Venous Drainage and Determination of the Borden Type of Dural Arteriovenous Fistula by Means of 3D Pseudocontinuous Arterial Spin-Labeling MRI. <i>American Journal of Roentgenology</i> , 2016 , 207, 163-9	5.4	12
84	Ischemic core and hypoperfusion volumes predict infarct size in SWIFT PRIME. <i>Annals of Neurology</i> , 2016 , 79, 76-89	9.4	114
83	A score based on age and DWI volume predicts poor outcome following endovascular treatment for acute ischemic stroke. <i>International Journal of Stroke</i> , 2015 , 10, 705-9	6.3	23
82	Worse stroke outcome in atrial fibrillation is explained by more severe hypoperfusion, infarct growth, and hemorrhagic transformation. <i>International Journal of Stroke</i> , 2015 , 10, 534-40	6.3	73
81	Reperfusion of very low cerebral blood volume lesion predicts parenchymal hematoma after endovascular therapy. <i>Stroke</i> , 2015 , 46, 1245-9	6.7	34
80	Cerebral Blood Flow Changes in Glioblastoma Patients Undergoing Bevacizumab Treatment Are Seen in Both Tumor and Normal Brain. <i>Neuroradiology Journal</i> , 2015 , 28, 112-9	2	16

79	Interhospital variation in reperfusion rates following endovascular treatment for acute ischemic stroke. <i>Journal of NeuroInterventional Surgery</i> , 2015 , 7, 231-3	7.8	8
78	Apparent diffusion coefficient threshold for delineation of ischemic core. <i>International Journal of Stroke</i> , 2015 , 10, 348-53	6.3	112
77	Response to endovascular reperfusion is not time-dependent in patients with salvageable tissue. <i>Neurology</i> , 2015 , 85, 708-14	6.5	75
76	Low peak power multiband spokes pulses for B1 (+) inhomogeneity-compensated simultaneous multislice excitation in high field MRI. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 747-55	4.4	28
75	The growth rate of early DWI lesions is highly variable and associated with penumbral salvage and clinical outcomes following endovascular reperfusion. <i>International Journal of Stroke</i> , 2015 , 10, 723-9	6.3	100
74	The association between lesion location and functional outcome after ischemic stroke. <i>International Journal of Stroke</i> , 2015 , 10, 1270-6	6.3	24
73	Contact-free physiological monitoring using a markerless optical system. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 571-7	4.4	14
72	Yield of CT perfusion for the evaluation of transient ischaemic attack. <i>International Journal of Stroke</i> , 2015 , 10 Suppl A100, 25-9	6.3	6
71	Effect of number of acquisitions in diffusion tensor imaging of the pediatric brain: optimizing scan time and diagnostic experience. <i>Journal of Neuroimaging</i> , 2015 , 25, 296-302	2.8	4
70	Angiographic outcome of endovascular stroke therapy correlated with MR findings, infarct growth, and clinical outcome in the DEFUSE 2 trial. <i>International Journal of Stroke</i> , 2014 , 9, 860-5	6.3	18
69	Reliability of brain volume measurements: a test-retest dataset. <i>Scientific Data</i> , 2014 , 1, 140037	8.2	82
68	Hypoperfusion intensity ratio predicts infarct progression and functional outcome in the DEFUSE 2 Cohort. <i>Stroke</i> , 2014 , 45, 1018-23	6.7	104
67	Patients with single distal MCA perfusion lesions have a high rate of good outcome with or without reperfusion. <i>International Journal of Stroke</i> , 2014 , 9, 156-9	6.3	12
66	Effect of collateral blood flow on patients undergoing endovascular therapy for acute ischemic stroke. <i>Stroke</i> , 2014 , 45, 1035-9	6.7	110
65	Comparison of magnetic resonance imaging mismatch criteria to select patients for endovascular stroke therapy. <i>Stroke</i> , 2014 , 45, 1369-74	6.7	20
64	Early diffusion-weighted imaging reversal after endovascular reperfusion is typically transient in patients imaged 3 to 6 hours after onset. <i>Stroke</i> , 2014 , 45, 1024-8	6.7	69
63	Correlation of AOL recanalization, TIMI reperfusion and TICl reperfusion with infarct growth and clinical outcome. <i>Journal of NeuroInterventional Surgery</i> , 2014 , 6, 724-8	7.8	48
62	Advanced imaging improves prediction of hemorrhage after stroke thrombolysis. <i>Annals of Neurology</i> , 2013 , 73, 510-9	9.4	57

61	Early diffusion-weighted imaging and perfusion-weighted imaging lesion volumes forecast final infarct size in DEFUSE 2. <i>Stroke</i> , 2013 , 44, 681-5	6.7	88
60	High-resolution cerebral blood volume imaging in humans using the blood pool contrast agent ferumoxytol. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 705-10	4.4	46
59	Clinical outcomes strongly associated with the degree of reperfusion achieved in target mismatch patients: pooled data from the Diffusion and Perfusion Imaging Evaluation for Understanding Stroke Evolution studies. <i>Stroke</i> , 2013 , 44, 1885-90	6.7	31
58	The effects of alteplase 3 to 6 hours after stroke in the EPITHET-DEFUSE combined dataset: post hoc case-control study. <i>Stroke</i> , 2013 , 44, 87-93	6.7	73
57	Impact of diffusion-weighted imaging lesion volume on the success of endovascular reperfusion therapy. <i>Stroke</i> , 2013 , 44, 2205-11	6.7	44
56	Comparison of the response to endovascular reperfusion in relation to site of arterial occlusion. <i>Neurology</i> , 2013 , 81, 614-8	6.5	18
55	Acute Stroke Imaging Research Roadmap II. <i>Stroke</i> , 2013 , 44, 2628-39	6.7	133
54	Simultaneous perfusion and permeability measurements using combined spin- and gradient-echo MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 732-43	7.3	37
53	Patients with the malignant profile within 3 hours of symptom onset have very poor outcomes after intravenous tissue-type plasminogen activator therapy. <i>Stroke</i> , 2012 , 43, 2494-6	6.7	35
52	MRI profile and response to endovascular reperfusion after stroke (DEFUSE 2): a prospective cohort study. <i>Lancet Neurology</i> , 2012 , 11, 860-7	24.1	612
51	Ultra-high resolution diffusion tensor imaging of the microscopic pathways of the medial temporal lobe. <i>NeuroImage</i> , 2012 , 62, 2065-82	7.9	48
50	CBF measurements using multidelay pseudocontinuous and velocity-selective arterial spin labeling in patients with long arterial transit delays: comparison with xenon CT CBF. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 110-9	5.6	66
49	Combined spin- and gradient-echo perfusion-weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 30-40	4.4	70
48	Measuring brain oxygenation in humans using a multiparametric quantitative blood oxygenation level dependent MRI approach. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 905-11	4.4	49
47	The infarct core is well represented by the acute diffusion lesion: sustained reversal is infrequent. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 50-6	7.3	148
46	Arterial spin labeling imaging findings in transient ischemic attack patients: comparison with diffusion- and bolus perfusion-weighted imaging. <i>Cerebrovascular Diseases</i> , 2012 , 34, 221-8	3.2	41
45	Automated perfusion imaging for the evaluation of transient ischemic attack. <i>Stroke</i> , 2012 , 43, 1556-60	6.7	36
44	Abstract 52: Results of DEFUSE 2: Imaging Endpoints. <i>Stroke</i> , 2012 , 43,	6.7	4

43	Abstract 73: Results of DEFUSE 2: Clinical Endpoints. <i>Stroke</i> , 2012 , 43,	6.7	1
42	Refining the definition of the malignant profile: insights from the DEFUSE-EPITHET pooled data set. <i>Stroke</i> , 2011 , 42, 1270-5	6.7	176
41	RAPID automated patient selection for reperfusion therapy: a pooled analysis of the Echoplanar Imaging Thrombolytic Evaluation Trial (EPITHET) and the Diffusion and Perfusion Imaging Evaluation for Understanding Stroke Evolution (DEFUSE) Study. <i>Stroke</i> , 2011 , 42, 1608-14	6.7	191
40	Advanced diffusion-weighted magnetic resonance imaging techniques of the human spinal cord. <i>Topics in Magnetic Resonance Imaging</i> , 2010 , 21, 367-78	2.3	52
39	Generalized Diffusion Tensor Imaging (GDTI): A Method for Characterizing and Imaging Diffusion Anisotropy Caused by Non-Gaussian Diffusion. <i>Israel Journal of Chemistry</i> , 2010 , 43, 145-154	3.4	15
38	COMT genotype affects prefrontal white matter pathways in children and adolescents. <i>NeuroImage</i> , 2010 , 53, 926-34	7.9	57
37	Real-time diffusion-perfusion mismatch analysis in acute stroke. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1024-37	5.6	289
36	Optimal Tmax threshold for predicting penumbral tissue in acute stroke. <i>Stroke</i> , 2009 , 40, 469-75	6.7	298
35	Relationships between cerebral perfusion and reversibility of acute diffusion lesions in DEFUSE: insights from RADAR. <i>Stroke</i> , 2009 , 40, 1692-7	6.7	81
34	New methods in diffusion-weighted and diffusion tensor imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2009 , 17, 175-204	1.6	51
33	Geography, structure, and evolution of diffusion and perfusion lesions in Diffusion and perfusion imaging Evaluation For Understanding Stroke Evolution (DEFUSE). <i>Stroke</i> , 2009 , 40, 3245-51	6.7	48
32	Optimal definition for PWI/DWI mismatch in acute ischemic stroke patients. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 887-91	7.3	127
31	Cognitive processing speed and the structure of white matter pathways: convergent evidence from normal variation and lesion studies. <i>NeuroImage</i> , 2008 , 42, 1032-44	7.9	355
30	Relationships between infarct growth, clinical outcome, and early recanalization in diffusion and perfusion imaging for understanding stroke evolution (DEFUSE). <i>Stroke</i> , 2008 , 39, 2257-63	6.7	115
29	The MRA-DWI mismatch identifies patients with stroke who are likely to benefit from reperfusion. <i>Stroke</i> , 2008 , 39, 2491-6	6.7	96
28	Augmented generalized SENSE reconstruction to correct for rigid body motion. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 90-102	4.4	77
27	Time-resolved 3D quantitative flow MRI of the major intracranial vessels: initial experience and comparative evaluation at 1.5T and 3.0T in combination with parallel imaging. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 127-40	4.4	132
26	Perfusion mapping with multiecho multishot parallel imaging EPI. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 70-81	4.4	51

25	Risk factors of symptomatic intracerebral hemorrhage after tPA therapy for acute stroke. <i>Stroke</i> , 2007 , 38, 2275-8	6.7	155
24	Diffusion-weighted MR imaging (DWI) in spinal cord ischemia. <i>Neuroradiology</i> , 2006 , 48, 795-801	3.2	133
23	Diffusion-weighted magnetic resonance imaging of the spine and spinal cord. <i>Seminars in Roentgenology</i> , 2006 , 41, 294-311	0.8	25
22	Magnetic resonance imaging profiles predict clinical response to early reperfusion: the diffusion and perfusion imaging evaluation for understanding stroke evolution (DEFUSE) study. <i>Annals of Neurology</i> , 2006 , 60, 508-17	9.4	1004
21	Comparison of minimally invasive and conventional open posterolateral lumbar fusion using magnetic resonance imaging and retraction pressure studies. <i>Journal of Spinal Disorders and Techniques</i> , 2006 , 19, 77-86		132
20	Children's reading performance is correlated with white matter structure measured by diffusion tensor imaging. <i>Cortex</i> , 2005 , 41, 354-63	3.8	297
19	Foundations of advanced magnetic resonance imaging. <i>NeuroRx</i> , 2005 , 2, 167-96		67
18	Occipital-callosal pathways in children: Validation and atlas development. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1064, 98-112	6.5	47
17	Foundations of advanced magnetic resonance imaging. <i>Neurotherapeutics</i> , 2005 , 2, 167-196	6.4	1
16	Characterizing non-Gaussian diffusion by using generalized diffusion tensors. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 924-37	4.4	206
15	Current concepts and advances in clinical parallel magnetic resonance imaging. <i>Topics in Magnetic Resonance Imaging</i> , 2004 , 15, 129-58	2.3	62
14	Basic principles of diffusion-weighted imaging. <i>European Journal of Radiology</i> , 2003 , 45, 169-84	4.7	582
13	In vivo MR tractography using diffusion imaging. <i>European Journal of Radiology</i> , 2003 , 45, 223-34	4.7	177
12	Inter-sequence and inter-imaging unit variability of diffusion tensor MR imaging histogram-derived metrics of the brain in healthy volunteers. <i>American Journal of Neuroradiology</i> , 2003 , 24, 638-43	4.4	63
11	Line scan diffusion imaging of the spine. <i>American Journal of Neuroradiology</i> , 2003 , 24, 5-12	4.4	56
10	Diffusion-weighted imaging of the spinal cord: interleaved echo-planar imaging is superior to fast spin-echo. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 15, 364-73	5.6	67
9	Diffusion tensor imaging using single-shot SENSE-EPI. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 128-36	4.4	244
8	Diffusion imaging in multiple sclerosis. <i>Neuroimaging Clinics of North America</i> , 2002 , 12, 71-106	3	32

7	Diffusion-tensor imaging of cognitive performance. <i>Brain and Cognition</i> , 2002 , 50, 396-413	2.7	83
6	Improved diffusion-weighted single-shot echo-planar imaging (EPI) in stroke using sensitivity encoding (SENSE). <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 548-54	4.4	252
5	T1 maps from shifted spin echoes and stimulated echoes. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1242-5	4.4	7
4	Magnetic resonance diffusion tensor imaging for characterizing diffuse and focal white matter abnormalities in multiple sclerosis. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 583-91	4.4	227
3	Diffusion-weighted imaging with navigated interleaved echo-planar imaging and a conventional gradient system. <i>Radiology</i> , 1999 , 211, 799-806	20.5	82
2	Modern Applications of MRI in Medical Sciences 343-476		1
1	Iodinated contrast media shortage: insights and guidance from two major public hospitals. <i>Journal of Medical Imaging and Radiation Oncology</i> ,	1.7	0