

Roland Bammer

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11544836/roland-bammer-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
113	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
112	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
111	Basic principles of diffusion-weighted imaging. <i>European Journal of Radiology</i> , 2003 , 45, 169-84	4.7	582
110	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
109	Optimal Tmax threshold for predicting penumbral tissue in acute stroke. <i>Stroke</i> , 2009 , 40, 469-75	6.7	298
108	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
107	Real-time diffusion-perfusion mismatch analysis in acute stroke. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1024-37	5.6	289
106	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
105	Diffusion tensor imaging using single-shot SENSE-EPI. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 128-36	4.4	244
104	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
103	Characterizing non-Gaussian diffusion by using generalized diffusion tensors. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 924-37	4.4	206
102	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
101	In vivo MR tractography using diffusion imaging. <i>European Journal of Radiology</i> , 2003 , 45, 223-34	4.7	177
100	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
99	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
98	Risk factors of symptomatic intracerebral hemorrhage after tPA therapy for acute stroke. <i>Stroke</i> , 2007 , 38, 2275-8	6.7	155

97	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
96	Acute Stroke Imaging Research Roadmap II. <i>Stroke</i> , 2013 , 44, 2628-39	6.7	133
95	Diffusion-weighted MR imaging (DWI) in spinal cord ischemia. <i>Neuroradiology</i> , 2006 , 48, 795-801	3.2	133
94	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
93	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
92	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
91	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
90	Ischemic core and hypoperfusion volumes predict infarct size in SWIFT PRIME. <i>Annals of Neurology</i> , 2016 , 79, 76-89	9.4	114
89	Apparent diffusion coefficient threshold for delineation of ischemic core. <i>International Journal of Stroke</i> , 2015 , 10, 348-53	6.3	112
88	Effect of collateral blood flow on patients undergoing endovascular therapy for acute ischemic stroke. <i>Stroke</i> , 2014 , 45, 1035-9	6.7	110
87	Hypoperfusion intensity ratio predicts infarct progression and functional outcome in the DEFUSE 2 Cohort. <i>Stroke</i> , 2014 , 45, 1018-23	6.7	104
86	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
85	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
84	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
83	Diffusion-tensor imaging of cognitive performance. <i>Brain and Cognition</i> , 2002 , 50, 396-413	2.7	83
82	Reliability of brain volume measurements: a test-retest dataset. <i>Scientific Data</i> , 2014 , 1, 140037	8.2	82
81	Diffusion-weighted imaging with navigated interleaved echo-planar imaging and a conventional gradient system. <i>Radiology</i> , 1999 , 211, 799-806	20.5	82
80	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

79	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
78	Computed tomographic perfusion to Predict Response to Recanalization in ischemic stroke. <i>Annals of Neurology</i> , 2017 , 81, 849-856	9.4	79
77	Augmented generalized SENSE reconstruction to correct for rigid body motion. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 90-102	4.4	77
76	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
75	Response to endovascular reperfusion is not time-dependent in patients with salvageable tissue. <i>Neurology</i> , 2015 , 85, 708-14	6.5	75
74	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
73	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
72	Combined spin- and gradient-echo perfusion-weighted imaging. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 30-40	4.4	70
71	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
70	Foundations of advanced magnetic resonance imaging. <i>NeuroRx</i> , 2005 , 2, 167-96		67
69	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
68	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
67	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
66	Current concepts and advances in clinical parallel magnetic resonance imaging. <i>Topics in Magnetic Resonance Imaging</i> , 2004 , 15, 129-58	2.3	62
65	Advanced imaging improves prediction of hemorrhage after stroke thrombolysis. <i>Annals of Neurology</i> , 2013 , 73, 510-9	9.4	57
64	COMT genotype affects prefrontal white matter pathways in children and adolescents. <i>NeuroImage</i> , 2010 , 53, 926-34	7.9	57
63	Line scan diffusion imaging of the spine. <i>American Journal of Neuroradiology</i> , 2003 , 24, 5-12	4.4	56
62	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

61	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
60	Perfusion mapping with multiecho multishot parallel imaging EPI. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 70-81	4.4	51
59	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
58	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
57	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
56	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
55	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
54	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
53	Impact of diffusion-weighted imaging lesion volume on the success of endovascular reperfusion therapy. <i>Stroke</i> , 2013 , 44, 2205-11	6.7	44
52	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
51	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
50	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
49	Automated perfusion imaging for the evaluation of transient ischemic attack. <i>Stroke</i> , 2012 , 43, 1556-60	6.7	36
48	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
47	Reperfusion of very low cerebral blood volume lesion predicts parenchymal hematoma after endovascular therapy. <i>Stroke</i> , 2015 , 46, 1245-9	6.7	34
46	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
45	Diffusion imaging in multiple sclerosis. <i>Neuroimaging Clinics of North America</i> , 2002 , 12, 71-106	3	32
44	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

43	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
42	Fast Automatic Detection of Large Vessel Occlusions on CT Angiography. <i>Stroke</i> , 2019 , 50, 3431-3438	6.7	28
41	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
40	Diffusion-weighted magnetic resonance imaging of the spine and spinal cord. <i>Seminars in Roentgenology</i> , 2006 , 41, 294-311	0.8	25
39	Prospective motion correction using coil-mounted cameras: Cross-calibration considerations. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 1911-1921	4.4	24
38	The association between lesion location and functional outcome after ischemic stroke. <i>International Journal of Stroke</i> , 2015 , 10, 1270-6	6.3	24
37	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
36	Trade-off between angular and spatial resolutions in in vivo fiber tractography. <i>NeuroImage</i> , 2016 , 129, 117-132	7.9	22
35	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
34	Comparison of magnetic resonance imaging mismatch criteria to select patients for endovascular stroke therapy. <i>Stroke</i> , 2014 , 45, 1369-74	6.7	20
33	Prognostic value of diffusion-weighted MRI for post-cardiac arrest coma. <i>Neurology</i> , 2020 , 94, e1684-e1692	6.9	18
32	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
31	Comparison of the response to endovascular reperfusion in relation to site of arterial occlusion. <i>Neurology</i> , 2013 , 81, 614-8	6.5	18
30	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
29	Time From Imaging to Endovascular Reperfusion Predicts Outcome in Acute Stroke. <i>Stroke</i> , 2018 , 49, 952-957	6.7	16
28	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
27	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
26	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

25	Contact-free physiological monitoring using a markerless optical system. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 571-7	4.4	14
24	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
23	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
22	Optimal Computed Tomographic Perfusion Scan Duration for Assessment of Acute Stroke Lesion Volumes. <i>Stroke</i> , 2016 , 47, 2966-2971	6.7	12
21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	T1 maps from shifted spin echoes and stimulated echoes. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1242-5	4.5	7
13	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
12	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
11	Abstract 52: Results of DEFUSE 2: Imaging Endpoints. <i>Stroke</i> , 2012 , 43,	6.7	4
10	Distal Medium Vessel Occlusions Can Be Accurately and Rapidly Detected Using Maps. <i>Stroke</i> , 2021 , 52, 3308-3317	6.7	3
9	Feasibility of Marker-Free Motion Tracking for Motion-Corrected MRI and PET-MRI 2016 ,		2
8	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

7	Modern Applications of MRI in Medical Sciences	343-476		1
6	Foundations of advanced magnetic resonance imaging. <i>Neurotherapeutics</i> , 2005 , 2, 167-196		6.4	1
5	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
4	Abstract 73: Results of DEFUSE 2: Clinical Endpoints. <i>Stroke</i> , 2012 , 43,		6.7	1
3	Iodinated contrast media shortage: insights and guidance from two major public hospitals. <i>Journal of Medical Imaging and Radiation Oncology</i> ,		1.7	0
2	MR perfusion imaging: Half-dose gadolinium is half the quality. <i>Journal of Neuroimaging</i> , 2021 , 31, 1014-1019		1.8	1
1	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	