

List of Publications by Citations

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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	7,977 citations	36 h-index	89 g-index
125 ext. papers	9,476 ext. citations	5.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
114	Blood-brain barrier breakdown in the aging human hippocampus. <i>Neuron</i> , 2015 , 85, 296-302	13.9	1023
113	Glioma grading: sensitivity, specificity, and predictive values of perfusion MR imaging and proton MR spectroscopic imaging compared with conventional MR imaging. <i>American Journal of Neuroradiology</i> , 2003 , 24, 1989-98	4.4	725
112	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. <i>Nature Medicine</i> , 2019 , 25, 270-276	50.5	577
111	High-grade gliomas and solitary metastases: differentiation by using perfusion and proton spectroscopic MR imaging. <i>Radiology</i> , 2002 , 222, 715-21	20.5	444
110	Gliomas: predicting time to progression or survival with cerebral blood volume measurements at dynamic susceptibility-weighted contrast-enhanced perfusion MR imaging. <i>Radiology</i> , 2008 , 247, 490-8	20.5	403
109	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. <i>Nature</i> , 2020 , 581, 71-76	50.4	356
108	Comparison of cerebral blood volume and vascular permeability from dynamic susceptibility contrast-enhanced perfusion MR imaging with glioma grade. <i>American Journal of Neuroradiology</i> , 2004 , 25, 746-55	4.4	353
107	Vascular dysfunction-The disregarded partner of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019 , 15, 158-167	1.2	265
106	Diffusion-tensor MR imaging of intracranial neoplasia and associated peritumoral edema: introduction of the tumor infiltration index. <i>Radiology</i> , 2004 , 232, 221-8	20.5	259
105	Angiogenesis in gliomas: biology and molecular pathophysiology. <i>Brain Pathology</i> , 2005 , 15, 297-310	6	254
104	Perfusion MRI: the five most frequently asked technical questions. <i>American Journal of Roentgenology</i> , 2013 , 200, 24-34	5.4	225
103	25 Years of Contrast-Enhanced MRI: Developments, Current Challenges and Future Perspectives. <i>Advances in Therapy</i> , 2016 , 33, 1-28	4.1	211
102	Relative cerebral blood volume measurements in intracranial mass lesions: interobserver and intraobserver reproducibility study. <i>Radiology</i> , 2002 , 224, 797-803	20.5	207
101	Low-grade gliomas: dynamic susceptibility-weighted contrast-enhanced perfusion MR imaging--prediction of patient clinical response. <i>Radiology</i> , 2006 , 238, 658-67	20.5	206
100	Microvascular abnormality in relapsing-remitting multiple sclerosis: perfusion MR imaging findings in normal-appearing white matter. <i>Radiology</i> , 2004 , 231, 645-52	20.5	192
99	Dynamic susceptibility contrast perfusion MR imaging of multiple sclerosis lesions: characterizing hemodynamic impairment and inflammatory activity. <i>American Journal of Neuroradiology</i> , 2005 , 26, 1539-47	4.4	108
98	Central nervous system lymphoma characterization by diffusion-weighted imaging and MR spectroscopy. <i>Journal of Neuroimaging</i> , 2008 , 18, 411-7	2.8	107

97	Dynamic contrast-enhanced perfusion MR imaging measurements of endothelial permeability: differentiation between atypical and typical meningiomas. <i>American Journal of Neuroradiology</i> , 2003 , 24, 1554-9	4.4	99
96	Novel approach to the measurement of absolute cerebral blood volume using vascular-space-occupancy magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1403-14	4.4	97
95	Proton MR spectroscopy of tumefactive demyelinating lesions. <i>American Journal of Neuroradiology</i> , 2002 , 23, 1378-86	4.4	94
94	Clinical applications of diffusion tensor imaging. <i>World Neurosurgery</i> , 2014 , 82, 96-109	2.1	78
93	Principles of T2 *-weighted dynamic susceptibility contrast MRI technique in brain tumor imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 296-313	5.6	76
92	Applications of diffusion tensor MR imaging in multiple sclerosis. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1064, 202-19	6.5	76
91	Optimal acquisition and modeling parameters for accurate assessment of low Ktrans blood-brain barrier permeability using dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1967-77	4.4	70
90	Multicenter study demonstrates radiomic features derived from magnetic resonance perfusion images identify pseudoprogression in glioblastoma. <i>Nature Communications</i> , 2019 , 10, 3170	17.4	69
89	MR spectroscopy of brain tumors. <i>Topics in Magnetic Resonance Imaging</i> , 2004 , 15, 291-313	2.3	68
88	Fiber estimation and tractography in diffusion MRI: development of simulated brain images and comparison of multi-fiber analysis methods at clinical b-values. <i>NeuroImage</i> , 2015 , 109, 341-56	7.9	67
87	Clinical image quality assessment of accelerated magnetic resonance neuroimaging using compressed sensing. <i>Investigative Radiology</i> , 2013 , 48, 638-45	10.1	61
86	Relative cerebral blood volume measurements of low-grade gliomas predict patient outcome in a multi-institution setting. <i>European Journal of Radiology</i> , 2010 , 73, 215-20	4.7	61
85	Consensus recommendations to accelerate clinical trials for neurofibromatosis type 2. <i>Clinical Cancer Research</i> , 2009 , 15, 5032-5039	12.9	61
84	Imaging of lymphoma of the central nervous system, spine, and orbit. <i>Radiologic Clinics of North America</i> , 2008 , 46, 339-61, ix	2.3	53
83	The emerging role of multidetector row CT angiography in the diagnosis of cervical arterial dissection: preliminary study. <i>Neuroradiology</i> , 2006 , 48, 606-12	3.2	46
82	Angiogenesis in gliomas: imaging and experimental therapeutics. <i>Brain Pathology</i> , 2005 , 15, 342-63	6	44
81	Perivascular space fluid contributes to diffusion tensor imaging changes in white matter. <i>NeuroImage</i> , 2019 , 197, 243-254	7.9	38
80	Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. <i>NeuroImage</i> , 2016 , 125, 767-779	7.9	38

79	Differentiating surgical from non-surgical lesions using perfusion MR imaging and proton MR spectroscopic imaging. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 557-65	2.7	37
78	Prominent perivenular spaces in multiple sclerosis as a sign of perivascular inflammation in primary demyelination. <i>American Journal of Neuroradiology</i> , 2005 , 26, 2316-9	4.4	36
77	Advanced imaging techniques in brain tumors. <i>Cancer Imaging</i> , 2009 , 9 Spec No A, S4-9	5.6	33
76	Clinical 7 T MRI: Are we there yet? A review about magnetic resonance imaging at ultra-high field. <i>British Journal of Radiology</i> , 2019 , 92, 20180492	3.4	32
75	Correlation of volumetric mismatch and mismatch of Alberta Stroke Program Early CT Scores on CT perfusion maps. <i>Neuroradiology</i> , 2009 , 51, 17-23	3.2	30
74	Imaging of the intracranial venous system with a contrast-enhanced volumetric interpolated examination. <i>European Radiology</i> , 2003 , 13, 1010-8	8	30
73	Intracranial lesions mimicking neoplasms. <i>Archives of Pathology and Laboratory Medicine</i> , 2009 , 133, 101-3	3.3	30
72	An anatomic review of thalamolimbic fiber tractography: ultra-high resolution direct visualization of thalamolimbic fibers anterior thalamic radiation, superolateral and inferomedial medial forebrain bundles, and newly identified septum pellucidum tract. <i>World Neurosurgery</i> , 2015 , 83, 54-61.e32	2.1	29
71	Highly accelerated dynamic contrast enhanced imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 635-44	4.4	27
70	Brainstem corticospinal tract diffusion tensor imaging in patients with primary posterior fossa neoplasms stratified by tumor type: a study of association with motor weakness and outcome. <i>Neurosurgery</i> , 2007 , 61, 1199-207; discussion 1207-8	3.2	26
69	GOCART: Golden-angle Cartesian randomized time-resolved 3D MRI. <i>Magnetic Resonance Imaging</i> , 2016 , 34, 940-50	3.3	25
68	Conventional MR imaging with simultaneous measurements of cerebral blood volume and vascular permeability in ganglioglioma. <i>Magnetic Resonance Imaging</i> , 2004 , 22, 599-606	3.3	25
67	Predicting Meningioma Consistency on Preoperative Neuroimaging Studies. <i>Neurosurgery Clinics of North America</i> , 2016 , 27, 145-54	4	24
66	Magnetic resonance imaging of infectious meningitis and ventriculitis in adults. <i>Topics in Magnetic Resonance Imaging</i> , 2014 , 23, 315-25	2.3	24
65	High-resolution whole-brain DCE-MRI using constrained reconstruction: Prospective clinical evaluation in brain tumor patients. <i>Medical Physics</i> , 2016 , 43, 2013	4.4	22
64	Image processing approaches to enhance perivascular space visibility and quantification using MRI. <i>Scientific Reports</i> , 2019 , 9, 12351	4.9	21
63	Preoperative assessment of intracranial tumors with perfusion MR and a volumetric interpolated examination: a comparative study with DSA. <i>American Journal of Neuroradiology</i> , 2002 , 23, 1767-74	4.4	20
62	Repeated mild traumatic brain injuries induce persistent changes in plasma protein and magnetic resonance imaging biomarkers in the rat. <i>Scientific Reports</i> , 2019 , 9, 14626	4.9	18

61	Conventional and perfusion MR imaging of parafalcine chondrosarcoma. <i>American Journal of Neuroradiology</i> , 2003 , 24, 245-8	4.4	18
60	The LONI QC System: A Semi-Automated, Web-Based and Freely-Available Environment for the Comprehensive Quality Control of Neuroimaging Data. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 60	3.9	17
59	Perfusion MR imaging and proton MR spectroscopic imaging in differentiating necrotizing cerebritis from glioblastoma multiforme. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 238-43	3.3	17
58	Magnetic resonance and diffusion tensor imaging in pediatric white matter diseases. <i>Topics in Magnetic Resonance Imaging</i> , 2006 , 17, 265-74	2.3	17
57	Dynamic susceptibility contrast-enhanced perfusion and conventional MR imaging findings for adult patients with cerebral primitive neuroectodermal tumors. <i>American Journal of Neuroradiology</i> , 2004 , 25, 997-1005	4.4	15
56	Analytic Tools for Post-traumatic Epileptogenesis Biomarker Search in Multimodal Dataset of an Animal Model and Human Patients. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 86	3.9	15
55	Artificial intelligence for clinical decision support in neurology. <i>Brain Communications</i> , 2020 , 2, fcaa096	4.5	14
54	Body mass index, time of day and genetics affect perivascular spaces in the white matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1563-1578	7.3	13
53	CT Angiography of the Head in Extracorporeal Membrane Oxygenation. <i>American Journal of Neuroradiology</i> , 2017 , 38, 773-776	4.4	12
52	Diffusion tensor MR imaging (DTI) metrics in the cervical spinal cord in asymptomatic HIV-positive patients. <i>Neuroradiology</i> , 2011 , 53, 585-92	3.2	12
51	A T1 and DTI fused 3D Corpus Callosum analysis in pre- vs. post-season contact sports players. <i>Proceedings of SPIE</i> , 2015 , 9287,	1.7	10
50	Multimodal magnetic resonance imaging evaluation of primary brain tumors. <i>Seminars in Oncology</i> , 2014 , 41, 478-495	5.5	10
49	Dysregulation of PINCH signaling in mesial temporal epilepsy. <i>Journal of Clinical Neuroscience</i> , 2017 , 36, 43-52	2.2	10
48	Technique, radiation safety and image quality for chest X-ray imaging through glass and in mobile settings during the COVID-19 pandemic. <i>Physical and Engineering Sciences in Medicine</i> , 2020 , 43, 765-779 ⁷		10
47	Serum Protein Biomarker Findings Reflective of Oxidative Stress and Vascular Abnormalities in Male, but Not Female, Collision Sport Athletes. <i>Frontiers in Neurology</i> , 2020 , 11, 549624	4.1	10
46	Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. <i>Alzheimer's and Dementia</i> , 2019 , 15, 1568-1575 ¹⁰	1.2	10
45	The RSNA Pulmonary Embolism CT Dataset. <i>Radiology: Artificial Intelligence</i> , 2021 , 3, e200254	8.7	10
44	Nervous System Injury and Neuroimaging of Zika Virus Infection. <i>Frontiers in Neurology</i> , 2018 , 9, 227	4.1	9

43	Pictorial review of in vivo human brain: from anatomy to molecular imaging. <i>World Neurosurgery</i> , 2014 , 82, 72-95	2.1	9
42	A T1 and DTI fused 3D corpus callosum analysis in MCI subjects with high and low cardiovascular risk profile. <i>NeuroImage: Clinical</i> , 2017 , 14, 298-307	5.3	8
41	Nonparenchymal fluid is the source of increased mean diffusivity in preclinical Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 348-354	5.2	8
40	Neurological complications. <i>Cancer Imaging</i> , 2009 , 9 Spec No A, S71-4	5.6	8
39	Differentiating intracranial aspergillosis from a high grade glioma using MRI and MR spectroscopic imaging. <i>Journal of Neuroimaging</i> , 2007 , 17, 361-6	2.8	8
38	Advanced ADC Histogram, Perfusion, and Permeability Metrics Show an Association with Survival and Pseudoprogression in Newly Diagnosed Diffuse Intrinsic Pontine Glioma: A Report from the Pediatric Brain Tumor Consortium. <i>American Journal of Neuroradiology</i> , 2020 , 41, 718-724	4.4	8
37	Image coregistration: quantitative processing framework for the assessment of brain lesions. <i>Journal of Digital Imaging</i> , 2014 , 27, 369-79	5.3	7
36	Imaging of the Posttherapeutic Brain. <i>Topics in Magnetic Resonance Imaging</i> , 2015 , 24, 147-54	2.3	6
35	Concurrent intracranial and spinal subdural hematoma in a teenage athlete: a case report of this rare entity. <i>Case Reports in Radiology</i> , 2014 , 2014, 143408	0.6	6
34	Diffusion Imaging Reveals Sex Differences in the White Matter Following Sports-Related Concussion. <i>Cerebral Cortex</i> , 2021 , 31, 4411-4419	5.1	6
33	The Clinical Outcome of Posterior Reversible Encephalopathy Syndrome. <i>American Journal of Neuroradiology</i> , 2016 , 37, E55-6	4.4	5
32	Brain cortical structural differences between non-central nervous system cancer patients treated with and without chemotherapy compared to non-cancer controls: a cross-sectional pilot MRI study using clinically-indicated scans. <i>Proceedings of SPIE</i> , 2017 , 10572,	1.7	5
31	Conventional and Advanced Imaging of Spine Oncologic Disease, Nonoperative Post-treatment Effects, and Unique Spinal Conditions. <i>Neurosurgery</i> , 2018 , 82, 1-23	3.2	4
30	Diffusion restriction in a non-enhancing metastatic brain tumor treated with bevacizumab - recurrent tumor or atypical necrosis?. <i>Clinical Imaging</i> , 2014 , 38, 724-6	2.7	4
29	Prognostic value of proton magnetic resonance spectroscopy findings in near drowning patients: reversibility of the early metabolite abnormalities relates with a good outcome. <i>Arquivos De Neuro-Psiquiatria</i> , 2009 , 67, 55-7	1.6	4
28	Perivascular Space Imaging at Ultrahigh Field MR Imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021 , 29, 67-75	1.6	4
27	Association of Immunosuppression and Viral Load With Subcortical Brain Volume in an International Sample of People Living With HIV. <i>JAMA Network Open</i> , 2021 , 4, e2031190	10.4	4
26	Treatment of symptomatic fibroid disease using uterine fibroid embolisation: An Australian perspective. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2020 , 60, 324-329	1.7	3

25	Atypical central neurocytoma with metastatic craniospinal dissemination: a case report. <i>Clinical Imaging</i> , 2016 , 40, 1108-1111	2.7	3
24	Abnormal brain function in neuromyelitis optica: A fMRI investigation of mPASAT. <i>European Journal of Radiology</i> , 2017 , 95, 197-201	4.7	3
23	CLiP, catheter and line position dataset. <i>Scientific Data</i> , 2021 , 8, 285	8.2	3
22	Tracer kinetic models as temporal constraints during brain tumor DCE-MRI reconstruction. <i>Medical Physics</i> , 2020 , 47, 37-51	4.4	3
21	Assessment of metallic patient support devices and other items at 7-Tesla: Findings applied to 46 additional devices. <i>Magnetic Resonance Imaging</i> , 2019 , 57, 250-253	3.3	3
20	7-Tesla MRI of the brain in a research subject with bilateral, total knee replacement implants: Case report and proposed safety guidelines. <i>Magnetic Resonance Imaging</i> , 2019 , 57, 313-316	3.3	3
19	Signal Hyperintensity on Unenhanced T1-Weighted Brain and Cervical Spinal Cord MR Images after Multiple Doses of Linear Gadolinium-Based Contrast Agent. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1274-1281	4.4	2
18	Technological advances in neuroimaging: neurosurgical applications for the future. <i>World Neurosurgery</i> , 2014 , 82, 32-4	2.1	2
17	A system architecture for sharing de-identified, research-ready brain scans and health information across clinical imaging centers. <i>Studies in Health Technology and Informatics</i> , 2012 , 175, 19-28	0.5	2
16	Effect of Data Acquisition and Analysis Method on Fiber Orientation Estimation in Diffusion MRI. <i>Mathematics and Visualization</i> , 2014 , 2013, 13-24	0.6	2
15	White and Gray Matter Abnormalities in Australian Footballers With a History of Sports-Related Concussion: An MRI Study. <i>Cerebral Cortex</i> , 2021 , 31, 5331-5338	5.1	2
14	Neuroimaging at 3T vs 7T: Is It Really Worth It?. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021 , 29, 1-12	1.6	2
13	Cognitive ocular motor deficits and white matter damage chronically after sports-related concussion. <i>Brain Communications</i> , 2021 , 3, fcab213	4.5	2
12	Artificial intelligence in medical imaging: implications for patient radiation safety. <i>British Journal of Radiology</i> , 2021 , 94, 20210406	3.4	2
11	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120439119	11.5	2
10	Perfusion MRI of Brain Neoplasms. <i>Current Medical Imaging</i> , 2010 , 6, 232-245	1.2	1
9	Asymmetric distribution of enlarged perivascular spaces in centrum semiovale may be associated with epilepsy after acute ischemic stroke.. <i>CNS Neuroscience and Therapeutics</i> , 2022 ,	6.8	1
8	Lesion Volume in Relapsing Multiple Sclerosis is Associated with Perivascular Space Enlargement at the Level of the Basal Ganglia.. <i>American Journal of Neuroradiology</i> , 2022 , 43, 238-244	4.4	1

7	Clinical utility of deep learning motion correction for T1 weighted MPRAGE MR images. <i>European Journal of Radiology</i> , 2020 , 133, 109384	4.7	o
6	Microstructural correlates of Na relaxation in human brain at 7 Tesla. <i>NeuroImage</i> , 2020 , 211, 116609	7.9	o
5	Physicochemical Investigation into Major League Baseballs in the Era of Unprecedented Rise in Home Runs. <i>ACS Omega</i> , 2019 , 4, 20109-20117	3.9	o
4	Symptomatic orbital cysticercosis: Patterns of positive imaging findings on CT. <i>Radiology of Infectious Diseases</i> , 2017 , 4, 108-112	2	
3	Sodium selenate as a disease-modifying treatment for progressive supranuclear palsy: protocol for a phase 2, randomised, double-blind, placebo-controlled trial.. <i>BMJ Open</i> , 2021 , 11, e055019	3	
2	Impact of Neuroradiology Staffing on Academic Hospital Level Quality and Cost Measures for the Neuroscience Service Line. <i>Journal of the American College of Radiology</i> , 2018 , 15, 1609-1612	3.5	
1	Longitudinal tracking of axonal loss using diffusion magnetic resonance imaging in multiple sclerosis.. <i>Brain Communications</i> , 2022 , 4, fcac065	4.5	