

Xavier Golay

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5481265/publications.pdf>

Version: 2024-02-01

217
papers

13,907
citations

25034

57
h-index

23533

111
g-index

229
all docs

229
docs citations

229
times ranked

14109
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 102-116.	3.0	1,663
2	Determining the longitudinal relaxation time (T1) of blood at 3.0 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 679-682.	3.0	594
3	Functional magnetic resonance imaging based on changes in vascular space occupancy. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 263-274.	3.0	428
4	In vivo imaging of glucose uptake and metabolism in tumors. <i>Nature Medicine</i> , 2013, 19, 1067-1072.	30.7	427
5	Coordination of Voluntary and Stimulus-Driven Attentional Control in Human Cortex. <i>Psychological Science</i> , 2005, 16, 114-122.	3.3	412
6	Arterial Spin Labeling Perfusion of the Brain: Emerging Clinical Applications. <i>Radiology</i> , 2016, 281, 337-356.	7.3	360
7	Amide proton transfer imaging of human brain tumors at 3T. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 585-592.	3.0	308
8	Non-invasive measurement of perfusion: a critical review of arterial spin labelling techniques. <i>British Journal of Radiology</i> , 2006, 79, 688-701.	2.2	300
9	Model-free arterial spin labeling quantification approach for perfusion MRI. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 219-232.	3.0	275
10	Routine clinical brain MRI sequences for use at 3.0 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 13-22.	3.4	272
11	Non-invasive epileptic focus localization using EEG-triggered functional MRI and electromagnetic tomography. <i>Electroencephalography and Clinical Neurophysiology</i> , 1998, 106, 508-512.	0.3	258
12	Control of Object-based Attention in Human Cortex. <i>Cerebral Cortex</i> , 2004, 14, 1346-1357.	2.9	250
13	Perfusion Imaging Using Arterial Spin Labeling. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 10-27.	1.2	234
14	The QUASAR reproducibility study, Part II: Results from a multi-center Arterial Spin Labeling test-retest study. <i>NeuroImage</i> , 2010, 49, 104-113.	4.2	223
15	Melatonin augments hypothermic neuroprotection in a perinatal asphyxia model. <i>Brain</i> , 2013, 136, 90-105.	7.6	222
16	A neuroradiologist's guide to arterial spin labeling MRI in clinical practice. <i>Neuroradiology</i> , 2015, 57, 1181-1202.	2.2	216
17	Comparison of the dependence of blood R2 and R2* on oxygen saturation at 1.5 and 4.7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 47-60.	3.0	213
18	SENSE-DTI at 3 T. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 230-236.	3.0	202

#	ARTICLE	IF	CITATIONS
19	A new correlation-based fuzzy logic clustering algorithm for FMRI. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 249-260.	3.0	199
20	Pathogenesis of multiple sclerosis: insights from molecular and metabolic imaging. <i>Lancet Neurology</i> , The, 2014, 13, 807-822.	10.2	197
21	Cerebral Artery Dilatation Maintains Cerebral Oxygenation at Extreme Altitude and in Acute Hypoxia—An Ultrasound and MRI Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2019-2029.	4.3	187
22	Sustained Poststimulus Elevation in Cerebral Oxygen Utilization after Vascular Recovery. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 764-770.	4.3	152
23	Flow Territory Mapping of the Cerebral Arteries With Regional Perfusion MRI. <i>Stroke</i> , 2004, 35, 882-887.	2.0	150
24	Imaging Brain Deoxyglucose Uptake and Metabolism by Glucocest MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1270-1278.	4.3	150
25	Pulsed star labeling of arterial regions (PULSAR): A robust regional perfusion technique for high field imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 15-21.	3.0	143
26	Gastrointestinal transit measurements in mice with ^{99m} Tc-DTPA-labeled activated charcoal using NanoSPECT-CT. <i>EJNMMI Research</i> , 2013, 3, 60.	2.5	137
27	Improved detection of cortical MS lesions with phase-sensitive inversion recovery MRI. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 877-882.	1.9	132
28	Reproducibility of primary motor cortex somatotopy under controlled conditions. <i>American Journal of Neuroradiology</i> , 2002, 23, 1524-32.	2.4	114
29	PRESTO-SENSE: An ultrafast whole-brain fMRI technique. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 779-786.	3.0	112
30	EEG-Triggered Functional MRI in Patients With Pharmacoresistant Epilepsy. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 177-185.	3.4	112
31	Measurement of tissue oxygen extraction ratios from venous blood T2: Increased precision and validation of principle. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 282-291.	3.0	112
32	Sickle Cell Disease: Continuous Arterial Spin-labeling Perfusion MR Imaging in Children. <i>Radiology</i> , 2003, 227, 567-574.	7.3	111
33	Sodium accumulation is associated with disability and a progressive course in multiple sclerosis. <i>Brain</i> , 2013, 136, 2305-2317.	7.6	110
34	Internal Carotid Artery Occlusion Assessed at Pulsed Arterial Spin-labeling Perfusion MR Imaging at Multiple Delay Times. <i>Radiology</i> , 2004, 233, 899-904.	7.3	100
35	In vivo flow territory mapping of major brain feeding arteries. <i>NeuroImage</i> , 2006, 29, 136-144.	4.2	100
36	Territorial Arterial Spin Labeling in the Assessment of Collateral Circulation. <i>Stroke</i> , 2008, 39, 3248-3254.	2.0	98

#	ARTICLE	IF	CITATIONS
37	Transfer insensitive labeling technique (TILT): Application to multislice functional perfusion imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 454-461.	3.4	96
38	fMRI evidence for multisensory recruitment associated with rapid eye movements during sleep. <i>Human Brain Mapping</i> , 2009, 30, 1705-1722.	3.6	95
39	Magnetic resonance imaging biomarkers for chronic kidney disease: a position paper from the European Cooperation in Science and Technology Action PARENCHIMA. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, ii4-ii14.	0.7	91
40	High-resolution diffusion tensor imaging of the brain stem at 3 T. <i>American Journal of Neuroradiology</i> , 2004, 25, 1325-30.	2.4	87
41	Cerebral Border Zones between Distal End Branches of Intracranial Arteries: MR Imaging. <i>Radiology</i> , 2008, 246, 572-580.	7.3	83
42	Arterial Spin Labeling: Benefits and Pitfalls of High Magnetic Field. <i>Neuroimaging Clinics of North America</i> , 2006, 16, 259-268.	1.0	82
43	Brain Cell Death Is Reduced With Cooling by 3.5°C to 5°C but Increased With Cooling by 8.5°C in a Piglet Asphyxia Model. <i>Stroke</i> , 2015, 46, 275-278.	2.0	82
44	QUESP and QUEST revisited – fast and accurate quantitative CEST experiments. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1708-1721.	3.0	82
45	Consensus-based technical recommendations for clinical translation of renal ASL MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 141-161.	2.0	80
46	ExploreASL: An image processing pipeline for multi-center ASL perfusion MRI studies. <i>NeuroImage</i> , 2020, 219, 117031.	4.2	80
47	In vivo imaging of tau pathology using multi-parametric quantitative MRI. <i>NeuroImage</i> , 2015, 111, 369-378.	4.2	77
48	Quantitative Assessment of Cerebral Hemodynamic Parameters by QUASAR Arterial Spin Labeling in Alzheimer's Disease and Cognitively Normal Elderly Adults at 3-Tesla. <i>Journal of Alzheimer's Disease</i> , 2012, 31, 33-44.	2.6	76
49	A method for rapid <i>in vivo</i> measurement of blood T_1 . <i>NMR in Biomedicine</i> , 2011, 24, 80-88.	2.8	75
50	Neuroimaging studies in Rett syndrome. <i>Brain and Development</i> , 2001, 23, S62-S71.	1.1	73
51	Multi-vendor reliability of arterial spin labeling perfusion MRI using a near-identical sequence: Implications for multi-center studies. <i>NeuroImage</i> , 2015, 113, 143-152.	4.2	72
52	Brain mitochondrial oxidative metabolism during and after cerebral hypoxia – ischemia studied by simultaneous phosphorus magnetic-resonance and broadband near-infrared spectroscopy. <i>NeuroImage</i> , 2014, 102, 173-183.	4.2	70
53	Cerebral metabolism and perfusion in MR-negative individuals with refractory focal epilepsy assessed by simultaneous acquisition of 18 F-FDG PET and arterial spin labeling. <i>NeuroImage: Clinical</i> , 2016, 11, 648-657.	2.7	67
54	Cause and prevention of demyelination in a model multiple sclerosis lesion. <i>Annals of Neurology</i> , 2016, 79, 591-604.	5.3	66

#	ARTICLE	IF	CITATIONS
55	Measurements of cerebral perfusion and arterial hemodynamics during visual stimulation using TURBO-TILT. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 429-433.	3.0	63
56	Cerebral perfusion alterations in epileptic patients during peri-ictal and post-ictal phase: PASL vs DSC-MRI. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1001-1005.	1.8	62
57	Auditory tracts identified with combined fMRI and diffusion tractography. <i>NeuroImage</i> , 2014, 84, 562-574.	4.2	62
58	Energy failure in multiple sclerosis and its investigation using MR techniques. <i>Journal of Neurology</i> , 2011, 258, 2113-2127.	3.6	61
59	Validated imaging biomarkers as decision-making tools in clinical trials and routine practice: current status and recommendations from the EIBALL* subcommittee of the European Society of Radiology (ESR). <i>Insights Into Imaging</i> , 2019, 10, 87.	3.4	61
60	Cerebral Arterial Bolus Arrival Time is Prolonged in Multiple Sclerosis and Associated with Disability. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 34-42.	4.3	60
61	High-resolution isotropic 3D diffusion tensor imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 837-843.	3.0	57
62	Quantitative magnetization transfer in in vivo healthy human skeletal muscle at 3 T. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1739-1748.	3.0	57
63	Magnetization transfer MRI demonstrates spinal cord abnormalities in adrenomyeloneuropathy. <i>Neurology</i> , 2005, 64, 1739-1745.	1.1	55
64	Accelerated parallel imaging for functional imaging of the human brain. <i>NMR in Biomedicine</i> , 2006, 19, 342-351.	2.8	54
65	Incorporating radiomics into clinical trials: expert consensus endorsed by the European Society of Radiology on considerations for data-driven compared to biologically driven quantitative biomarkers. <i>European Radiology</i> , 2021, 31, 6001-6012.	4.5	53
66	Inhaled 45% argon augments hypothermic brain protection in a piglet model of perinatal asphyxia. <i>Neurobiology of Disease</i> , 2016, 87, 29-38.	4.4	52
67	Multiple acquisitions with global inversion cycling (MAGIC): A multislice technique for vascular-space-occupancy dependent fMRI. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 9-15.	3.0	51
68	Quantification of hydroxyl exchange of D-Glucose at physiological conditions for optimization of glucoCEST MRI at 3, 7 and 9.4 Tesla. <i>NMR in Biomedicine</i> , 2019, 32, e4113.	2.8	49
69	Intervoxel Heterogeneity of Event-Related Functional Magnetic Resonance Imaging Responses as a Function of T1 Weighting. <i>NeuroImage</i> , 2002, 17, 943-955.	4.2	48
70	Origin and minimization of residual motion-related artifacts in navigator-corrected segmented diffusion-weighted EPI of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 818-822.	3.0	48
71	Quantitative magnetization transfer characteristics of the human cervical spinal cord in vivo: Application to Adrenomyeloneuropathy. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 22-27.	3.0	48
72	Vascular Disorders: Insights from Arterial Spin Labeling. <i>Neuroimaging Clinics of North America</i> , 2012, 22, 259-269.	1.0	48

#	ARTICLE	IF	CITATIONS
73	Altered Flow Territories after Extracranial-Intracranial Bypass Surgery. <i>Neurosurgery</i> , 2005, 57, 486-494.	1.1	47
74	Melatonin as an adjunct to therapeutic hypothermia in a piglet model of neonatal encephalopathy: A translational study. <i>Neurobiology of Disease</i> , 2019, 121, 240-251.	4.4	47
75	Simultaneous T_2 and lipid quantitation using IDEAL-CPMG. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 1293-1302.	3.0	45
76	Repeatability of renal arterial spin labelling MRI in healthy subjects. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 145-153.	2.0	45
77	Technical recommendations for clinical translation of renal MRI: a consensus project of the Cooperation in Science and Technology Action PARENCHIMA. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 131-140.	2.0	44
78	MS Cortical Lesions on DIR: Not Quite What They Seem?. <i>PLoS ONE</i> , 2013, 8, e78879.	2.5	43
79	Inverse T_2 contrast at 1.5 Tesla between gray matter and white matter in the occipital lobe of normal adult human brain. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 401-406.	3.0	42
80	Magnetization transfer weighted imaging in the upper cervical spinal cord using cerebrospinal fluid as intersubject normalization reference (MTCSF imaging). <i>Magnetic Resonance in Medicine</i> , 2005, 54, 201-206.	3.0	42
81	IQ-Related fMRI Differences during Cognitive Set Shifting. <i>Cerebral Cortex</i> , 2010, 20, 641-649.	2.9	42
82	Comparison of arterial spin labeling registration strategies in the multi-center GENetic frontotemporal dementia initiative (GENFI). <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 131-140.	3.4	41
83	Possible artifacts in dynamic CEST MRI due to motion and field alterations. <i>Journal of Magnetic Resonance</i> , 2019, 298, 16-22.	2.1	41
84	Scan time reduction in proton magnetic resonance spectroscopic imaging of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 384-387.	3.0	40
85	Reduction of magnetic field inhomogeneity artifacts in echo planar imaging with SENSE and GESEPI at high field. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1418-1423.	3.0	40
86	Reduced R_2^* in multiple sclerosis normal appearing white matter and lesions may reflect decreased myelin and iron content. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 785-792.	1.9	39
87	Proton magnetic resonance spectroscopy lactate/N-acetylaspartate within 2 weeks of birth accurately predicts 2-year motor, cognitive and language outcomes in neonatal encephalopathy after therapeutic hypothermia. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2019, 104, fetalneonatal-2018-315478.	2.8	39
88	Relation Between Cerebral Perfusion Territories and Location of Cerebral Infarcts. <i>Stroke</i> , 2009, 40, 1617-1622.	2.0	37
89	Systemic pro-inflammatory cytokine status following therapeutic hypothermia in a piglet hypoxia-ischemia model. <i>Journal of Neuroinflammation</i> , 2017, 14, 44.	7.2	37
90	Acute LPS sensitization and continuous infusion exacerbates hypoxic brain injury in a piglet model of neonatal encephalopathy. <i>Scientific Reports</i> , 2019, 9, 10184.	3.3	36

#	ARTICLE	IF	CITATIONS
91	Dual vessel arterial spin labeling scheme for regional perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 1140-1144.	3.0	34
92	Partial volume correction in arterial spin labeling perfusion MRI: A method to disentangle anatomy from physiology or an analysis step too far?. <i>NeuroImage</i> , 2021, 238, 118236.	4.2	33
93	Functional evaluation using magnetic resonance imaging of the visual cortex in patients with retrochiasmatic lesions. <i>Journal of Neurosurgery</i> , 1998, 89, 780-790.	1.6	32
94	Broadband proton decoupling for in vivo brain spectroscopy in humans. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 226-232.	3.0	31
95	Simultaneous water and lipid suppression for in vivo brain spectroscopy in humans. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 691-696.	3.0	31
96	Sodium (^{23}Na) ultra-short echo time imaging in the human brain using a 3D-Cones trajectory. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2014, 27, 35-46.	2.0	31
97	Non-invasive visualization of collateral blood flow patterns of the circle of Willis by dynamic MR angiography. <i>Medical Image Analysis</i> , 2006, 10, 59-70.	11.6	30
98	High-Dose Melatonin and Ethanol Excipient Combined with Therapeutic Hypothermia in a Newborn Piglet Asphyxia Model. <i>Scientific Reports</i> , 2020, 10, 3898.	3.3	30
99	Similarities and Differences in Arterial Responses to Hypercapnia and Visual Stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 560-571.	4.3	29
100	Post-mortem cerebral magnetic resonance imaging T1 and T2 in fetuses, newborns and infants. <i>European Journal of Radiology</i> , 2012, 81, e232-e238.	2.6	29
101	Macroscopic orientation component analysis of brain white matter and thalamus based on diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 649-657.	3.0	28
102	Systemic effects of whole-body cooling to 35°C, 33.5°C, and 30°C in a piglet model of perinatal asphyxia: implications for therapeutic hypothermia. <i>Pediatric Research</i> , 2012, 71, 573-582.	2.3	28
103	Arterial spin labelling: final steps to make it a clinical reality. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 79-82.	2.0	28
104	Diagnostic accuracy of dynamic contrast-enhanced perfusion MRI in stratifying gliomas: A systematic review and meta-analysis. <i>Cancer Medicine</i> , 2019, 8, 5564-5573.	2.8	27
105	Parallel Imaging Techniques in Functional MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2004, 15, 255-265.	1.2	26
106	RF Pulse Concatenation for Spatially Selective Inversion. <i>Journal of Magnetic Resonance</i> , 2000, 146, 58-65.	2.1	25
107	Distribution of Cerebral Blood Flow in the Nucleus Caudatus, Nucleus Lentiformis, and Thalamus: A Study of Territorial Arterial Spin-labeling MR Imaging. <i>Radiology</i> , 2010, 254, 867-875.	7.3	25
108	Cerebral blood flow measurements in infants using look-locker arterial spin labeling. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1591-1600.	3.4	25

#	ARTICLE	IF	CITATIONS
109	Overview and Critical Appraisal of Arterial Spin Labelling Technique in Brain Perfusion Imaging. Contrast Media and Molecular Imaging, 2018, 2018, 1-15.	0.8	25
110	Immediate remote ischemic postconditioning after hypoxia ischemia in piglets protects cerebral white matter but not grey matter. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1396-1411.	4.3	24
111	Cortical grey matter sodium accumulation is associated with disability and secondary progressive disease course in relapse-onset multiple sclerosis. Journal of Neurology, Neurosurgery and Psychiatry, 2019, 90, 755-760.	1.9	24
112	Dexmedetomidine Combined with Therapeutic Hypothermia Is Associated with Cardiovascular Instability and Neurotoxicity in a Piglet Model of Perinatal Asphyxia. Developmental Neuroscience, 2017, 39, 156-170.	2.0	23
113	MR regional perfusion imaging: visualizing functional collateral circulation. American Journal of Neuroradiology, 2007, 28, 447-8.	2.4	22
114	Challenges in glucoCEST MR body imaging at 3 Tesla. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1628-1640.	2.0	21
115	Development, validation, qualification, and dissemination of quantitative MR methods: Overview and recommendations by the ISMRM quantitative MR study group. Magnetic Resonance in Medicine, 2022, 87, 1184-1206.	3.0	21
116	Intervoxel heterogeneity of event-related functional magnetic resonance imaging responses as a function of T(1) weighting. NeuroImage, 2002, 17, 943-55.	4.2	21
117	Neurocognitive Function and Neuroimaging Markers in Virologically Suppressed HIV-positive Patients Randomized to Ritonavir-boosted Protease Inhibitor Monotherapy or Standard Combination ART: A Cross-sectional Substudy From the PIVOT Trial. Clinical Infectious Diseases, 2016, 63, 257-264.	5.8	20
118	MRI and pathology correlations in the medulla in sudden unexpected death in epilepsy (SUDEP): a postmortem study. Neuropathology and Applied Neurobiology, 2021, 47, 157-170.	3.2	20
119	The value of arterial spin labelling in adults glioma grading: systematic review and meta-analysis. Oncotarget, 2019, 10, 1589-1601.	1.8	20
120	Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magnetic Resonance in Medicine, 2015, 73, spcone.	3.0	19
121	Increased resting cerebral blood flow in adult Fabry disease. Neurology, 2018, 90, e1379-e1385.	1.1	19
122	Short-term effects of early initiation of magnesium infusion combined with cooling after hypoxia-ischemia in term piglets. Pediatric Research, 2019, 86, 699-708.	2.3	19
123	Nimodipine Reduces Dysfunction and Demyelination in Models of Multiple Sclerosis. Annals of Neurology, 2020, 88, 123-136.	5.3	19
124	Melatonin and/or erythropoietin combined with hypothermia in a piglet model of perinatal asphyxia. Brain Communications, 2021, 3, fcaa211.	3.3	19
125	Retinotopic mapping in the human visual cortex using vascular space occupancy-dependent functional magnetic resonance imaging. NeuroReport, 2005, 16, 1635-1640.	1.2	18
126	Proton Magnetic Resonance Spectroscopy Lactate/N-Acetylaspartate Within 48 h Predicts Cell Death Following Varied Neuroprotective Interventions in a Piglet Model of Hypoxia-Ischemia With and Without Inflammation-Sensitization. Frontiers in Neurology, 2020, 11, 883.	2.4	18

#	ARTICLE	IF	CITATIONS
127	Evaluation of Therapy of X-Linked Adrenoleukodystrophy. <i>Neurochemical Research</i> , 2004, 29, 1003-1016.	3.3	17
128	High-sensitivity cerebral perfusion mapping in mice by kGRASE-fAIR at 9.4 T. <i>NMR in Biomedicine</i> , 2010, 23, 1061-1070.	2.8	17
129	Comparing model-based and model-free analysis methods for QUASAR arterial spin labeling perfusion quantification. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1466-1475.	3.0	17
130	Visualization of maturation of the corpus callosum during childhood and adolescence using T2 relaxometry. <i>International Journal of Developmental Neuroscience</i> , 2007, 25, 409-414.	1.6	16
131	Sodium quantification in the spinal cord at 3T. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1201-1208.	3.0	16
132	Human umbilical cord mesenchymal stromal cells as an adjunct therapy with therapeutic hypothermia in a piglet model of perinatal asphyxia. <i>Cytotherapy</i> , 2021, 23, 521-535.	0.7	16
133	Application of regional perfusion imaging to extra-intracranial bypass surgery and severe stenoses. <i>Journal of Neuroradiology</i> , 2005, 32, 321-324.	1.1	15
134	A Functional Magnetic Resonance Imaging Technique Based on Nulling Extravascular Gray Matter Signal. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 144-156.	4.3	15
135	Measuring arterial and tissue responses to functional challenges using arterial spin labeling. <i>NeuroImage</i> , 2010, 49, 478-487.	4.2	15
136	DCE-MRI: acquisition and analysis techniques. , 2013, , 58-74.		15
137	Dynamic characteristics of oxygenation-sensitive MRI signal in different temporal protocols for imaging human brain activity. <i>Neuroradiology</i> , 2000, 42, 591-601.	2.2	14
138	Defining Thresholds for Changes in Size of Simulated T2-Hyperintense Brain Lesions on the Basis of Qualitative Comparisons. <i>American Journal of Roentgenology</i> , 2003, 180, 65-69.	2.2	14
139	The BOLD response and vascular reactivity during visual stimulation in the presence of hypoxic hypoxia. <i>NeuroImage</i> , 2008, 41, 179-188.	4.2	14
140	Optimization and repeatability of multipool chemical exchange saturation transfer MRI of the prostate at 3.0T. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1238-1250.	3.4	14
141	Correcting radiofrequency inhomogeneity effects in skeletal muscle magnetisation transfer maps. <i>NMR in Biomedicine</i> , 2012, 25, 262-270.	2.8	13
142	Bi-exponential ^{23}Na T_2^* component analysis in the human brain. <i>NMR in Biomedicine</i> , 2018, 31, e3899.	2.8	13
143	Magnetic Resonance Imaging of Cerebral Small Vessel Disease in Men Living with HIV and HIV-Negative Men Aged 50 and Above. <i>AIDS Research and Human Retroviruses</i> , 2019, 35, 453-460.	1.1	13
144	Three-dimensional isotropic contrast-enhanced MR angiography of the carotid artery using sensitivity-encoding and random elliptic centric k-space filling: technique optimization. <i>Neuroradiology</i> , 2005, 47, 668-673.	2.2	12

#	ARTICLE	IF	CITATIONS
145	CEST MRI provides amide/amine surrogate biomarkers for treatment-naïve glioma sub-typing. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2377-2391.	6.4	12
146	Are Dynamic Arterial Spin-Labeling MRA and Time-Resolved Contrast-Enhanced MRA Suited for Confirmation of Obliteration following Gamma Knife Radiosurgery of Brain Arteriovenous Malformations?. <i>American Journal of Neuroradiology</i> , 2021, 42, 671-678.	2.4	11
147	Challenges and Perspectives of Quantitative Functional Sodium Imaging (fNaI). <i>Frontiers in Neuroscience</i> , 2018, 12, 810.	2.8	10
148	Comparison of Cerebral Blood Volume Measured by Near Infrared Spectroscopy and Contrast Enhanced Magnetic Resonance Imaging. <i>Advances in Experimental Medicine and Biology</i> , 1999, 471, 767-773.	1.6	10
149	Development of Intravascular Contrast Agents for MRI Using Gadolinium Chelates. <i>ChemMedChem</i> , 2011, 6, 781-787.	3.2	9
150	A novel use of arterial spin labelling MRI to demonstrate focal hypoperfusion in individuals with posterior cortical atrophy: a multimodal imaging study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, 1032-1034.	1.9	9
151	PROQUEST: a rapid assessment method based on progressive saturation for quantifying exchange rates using saturation times in CEST. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1638-1654.	3.0	9
152	Endogenous Chemical Exchange Saturation Transfer MRI for the Diagnosis and Therapy Response Assessment of Brain Tumors: A Systematic Review. <i>Radiology Imaging Cancer</i> , 2020, 2, e190036.	1.6	9
153	Hypothermia is not therapeutic in a neonatal piglet model of inflammation-sensitized hypoxia-induced ischemia. <i>Pediatric Research</i> , 2022, 91, 1416-1427.	2.3	9
154	Multidelay ASL of the pediatric brain. <i>British Journal of Radiology</i> , 2022, 95, 20220034.	2.2	9
155	Functional magnetic resonance imaging in adult craniopagus for presurgical evaluation. <i>Journal of Neurosurgery</i> , 2005, 103, 910-916.	1.6	8
156	Transient Lesion in the Splenium of the Corpus Callosum in Acute Uncomplicated Falciparum Malaria. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 1117-1123.	1.4	8
157	Sodium in the Relapsing/Remitting Multiple Sclerosis Spinal Cord: Increased Concentrations and Associations With Microstructural Tissue Anisotropy. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1429-1438.	3.4	8
158	Gray matter nulled and vascular space occupancy dependent fMRI response to visual stimulation during hypoxic hypoxia. <i>NeuroImage</i> , 2012, 59, 3450-3456.	4.2	7
159	Arterial Spin-Labeling Parameters Influence Signal Variability and Estimated Regional Relative Cerebral Blood Flow in Normal Aging and Mild Cognitive Impairment: FAIR versus PICORE Techniques. <i>American Journal of Neuroradiology</i> , 2015, 36, 1231-1236.	2.4	7
160	Assessment of a clinically feasible Bayesian fitting algorithm using a simplified description of Chemical Exchange Saturation Transfer (CEST) imaging. <i>Journal of Magnetic Resonance</i> , 2019, 300, 120-134.	2.1	7
161	Pulse sequences for measuring exchange rates between proton species: From unlocalised NMR spectroscopy to chemical exchange saturation transfer imaging. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 120-121, 25-71.	7.5	7
162	What do we know about dynamic glucose-enhanced (DGE) MRI and how close is it to the clinics? Horizon 2020 GLINT consortium report. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 87-104.	2.0	7

#	ARTICLE	IF	CITATIONS
163	Magnetisation transfer effects of Q2TIPS pulses in ASL. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012, 25, 113-126.	2.0	6
164	Comparison of Three Hypothermic Target Temperatures for the Treatment of Hypoxic Ischemia: mRNA Level Responses of Eight Genes in the Piglet Brain. <i>Translational Stroke Research</i> , 2013, 4, 248-257.	4.2	6
165	Effect of Liposomal Encapsulation on the Chemical Exchange Properties of Diamagnetic CEST Agents. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7545-7557.	2.6	6
166	GLINT: GlucoCEST in neoplastic tumors at 3T—clinical results of GlucoCEST in gliomas. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 77-85.	2.0	6
167	Neurogenesis Is Reduced at 48 h in the Subventricular Zone Independent of Cell Death in a Piglet Model of Perinatal Hypoxia-Ischemia. <i>Frontiers in Pediatrics</i> , 2022, 10, 793189.	1.9	6
168	PROPELLER for motion-robust imaging of <i>in vivo</i> mouse abdomen at 9.4 T. <i>NMR in Biomedicine</i> , 2010, 23, 1077-1086.	2.8	5
169	Extracranial measurements of amide proton transfer using exchange-modulated point-resolved spectroscopy (EXPRESS). <i>NMR in Biomedicine</i> , 2012, 25, 829-834.	2.8	5
170	Melatonin for Neonatal Encephalopathy: From Bench to Bedside. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5481.	4.1	5
171	Residual neurovascular function and retinopathy in a case of hemianopia. <i>Annals of the Academy of Medicine, Singapore</i> , 2009, 38, 827-31.	0.4	5
172	Efficacy of melatonin in term neonatal models of perinatal hypoxia-ischaemia. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 795-809.	3.7	5
173	Arterial Spin Labeling: a One-stop-shop for Measurement of Brain Perfusion in the Clinical Settings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4320-3.	0.5	4
174	The long and winding road to translation for imaging biomarker development: the case for arterial spin labelling (ASL). <i>European Radiology Experimental</i> , 2017, 1, 3.	3.4	4
175	Cover Image, Volume 32, Issue 9. <i>NMR in Biomedicine</i> , 2019, 32, e3984.	2.8	4
176	Serial blood cytokine and chemokine mRNA and microRNA over 48h are insult specific in a piglet model of inflammation-sensitized hypoxia-ischaemia. <i>Pediatric Research</i> , 2021, 89, 464-475.	2.3	4
177	Convergent and Discriminant Validity of Default Mode Network and Limbic Network Perfusion in Amnesic Mild Cognitive Impairment Patients. <i>Journal of Alzheimer's Disease</i> , 2021, 82, 1797-1808.	2.6	4
178	Modelling Blood Flow and Metabolism in the Piglet Brain During Hypoxia-Ischaemia: Simulating pH Changes. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 331-337.	1.6	4
179	Modelling Blood Flow and Metabolism in the Piglet Brain During Hypoxia-Ischaemia: Simulating Brain Energetics. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 339-344.	1.6	3
180	SODIUM ACCUMULATION IS ASSOCIATED WITH DISABILITY AND PROGRESSION IN MULTIPLE SCLEROSIS: A 23NA MRI STUDY. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013, 84, e2.144-e2.	1.9	3

#	ARTICLE	IF	CITATIONS
181	LOBAR DISTRIBUTION OF CORTICAL GREY MATTER LESIONS IN MULTIPLE SCLEROSIS CLINICAL SUBGROUPS. Journal of Neurology, Neurosurgery and Psychiatry, 2013, 84, e2.99-e2.	1.9	3
182	Arterial spin labeling-MRI: acquisition and analysis techniques. , 2013, , 38-57.		3
183	Dynamic susceptibility contrast MRI: acquisition and analysis techniques. , 2013, , 16-37.		3
184	Brain Perfusion, Regional Volumes, and Cognitive Function in Human Immunodeficiency Virusâ€“positive Patients Treated With Protease Inhibitor Monotherapy. Clinical Infectious Diseases, 2019, 68, 1031-1040.	5.8	3
185	Effect of labelling plane angulation and position on labelling efficiency and cerebral blood flow quantification in pseudo-continuous arterial spin labelling. Magnetic Resonance Imaging, 2019, 59, 61-67.	1.8	3
186	Planning of gamma knife radiosurgery (GKR) for brain arteriovenous malformations using triple magnetic resonance angiography (triple-MRA). British Journal of Neurosurgery, 2022, 36, 217-227.	0.8	3
187	MR perfusion imaging in pediatrics. , 0, , 326-348.		2
188	MR perfusion imaging in oncology: neuro applications. , 2013, , 204-237.		2
189	Imaging of brain oxygenation. , 2013, , 75-88.		2
190	MR perfusion imaging in neuroscience. , 0, , 103-126.		2
191	Estimation of arterial arrival time and cerebral blood flow from QUASAR arterial spin labeling using stable spline. Magnetic Resonance in Medicine, 2015, 74, 1758-1767.	3.0	2
192	Simulating NIRS and MRS Measurements During Cerebral Hypoxia-Ischaemia in Piglets Using a Computational Model. Advances in Experimental Medicine and Biology, 2014, 812, 187-194.	1.6	2
193	Imaging of flow: basic principles. , 2013, , 1-15.		1
194	MR perfusion imaging in neurovascular disease. , 0, , 127-163.		1
195	P1-286: STRATIFICATION OF DEMENTIA SUB-TYPES USING ARTERIAL SPIN LABELED MRI. , 2014, 10, P414-P415.		1
196	RADI-06. CORRELATION BETWEEN APT-CEST AND 18F-CHOLINE PET IN GLIOMA AT 3T. Neuro-Oncology, 2018, 20, i170-i171.	1.2	1
197	Translating pHâ€“sensitive PROgressive saturation for QUantifying Exchange rates using Saturation Times (PROâ€“QUEST) MRI to a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1734-1746.	3.0	1
198	Physiological MR of the pediatric brain: overview. , 2004, , 647-673.		0

#	ARTICLE	IF	CITATIONS
199	Physiological MR of the pediatric brain. , 0, , 705-726.		0
200	Combined Proton Magnetic Resonance Spectroscopy and Near-Infrared Spectroscopy Measurements of Cerebral Blood Volume, Oxygenation, Cytochrome Oxidase, and Intracellular Metabolites During Perinatal Hypoxia-Ischaemia. Pediatric Research, 2011, 70, 114-114.	2.3	0
201	Systemic Effects of Whole-Body Cooling to 35, 33 and 30°C in a Piglet Model of Perinatal Asphyxia. Pediatric Research, 2011, 70, 661-661.	2.3	0
202	MR perfusion imaging in the body: kidney, liver, and lung. , 0, , 281-301.		0
203	MR perfusion imaging in neurodegenerative disease. , 0, , 164-178.		0
204	MR perfusion imaging in clinical neuroradiology. , 0, , 179-203.		0
205	MR perfusion imaging in oncology: applications outside the brain. , 0, , 238-254.		0
206	Vascular space occupancy (VASO) imaging of cerebral blood volume. , 0, , 89-102.		0
207	MR perfusion imaging in breast cancer. , 0, , 255-280.		0
208	MR perfusion imaging in cardiac diseases. , 0, , 302-325.		0
209	Optimum therapeutic hypothermia temperature after perinatal asphyxia: a magnetic resonance spectroscopy biomarker and immunohistochemistry study in the newborn piglet. Lancet, The, 2014, 383, S54.	13.7	0
210	A31â€¦The development of translational biomarkers of neuroinflammation in a mouse model of huntingtonâ€™s disease. , 2018, , .		0
211	Author response: Increased resting cerebral blood flow in adult Fabry disease: MRI arterial spin labeling study. Neurology, 2018, 91, 1072-1072.	1.1	0
212	Non-invasive imaging of disrupted protein homeostasis induced by proteasome inhibitor treatment using chemical exchange saturation transfer MRI. Scientific Reports, 2018, 8, 15068.	3.3	0
213	Systematic review and meta-analysis: arterial spin labelling (ASL) efficiency in grading of adults glioma. Neuro-Oncology, 2018, 20, v360-v360.	1.2	0
214	Hemolytic Anemia and Thrombocytopenia Associated with Ischemic Brain Lesions in Patients with Acute Uncomplicated Plasmodium Falciparum Malaria.. Blood, 2006, 108, 1572-1572.	1.4	0
215	Alternative Methods for fMRI. Biological Magnetic Resonance, 2015, , 271-309.	0.4	0
216	Chapter 17 GlucoCEST: Imaging Glucose in Tumors. , 2017, , 399-426.		0

#	ARTICLE	IF	CITATIONS
217	Repeatability of perfusion measurements in adult gliomas using pulsed and pseudo-continuous arterial spin labelling MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 113-125.	2.0	0