List of Publications by Year in descending order

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MADE FLYTHCOF

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186. | 27.6 | 792 |
| 2 | De novo cardiomyocytes from within the activated adult heart after injury. Nature, 2011, 474, 640-644. | 27.8 | 602 |
| 3 | In vivo imaging of glucose uptake and metabolism in tumors. Nature Medicine, 2013, 19, 1067-1072. | 30.7 | 427 |
| 4 | Compartment models of the diffusion MR signal in brain white matter: A taxonomy and comparison. Neurolmage, 2012, 59, 2241-2254. | 4.2 | 372 |
| 5 | Deep in vivo photoacoustic imaging of mammalian tissues using a tyrosinase-based genetic reporter. Nature Photonics, 2015, 9, 239-246. | 31.4 | 362 |
| 6 | Impaired glymphatic function and clearance of tau in an Alzheimer's disease model. Brain, 2020, 143, 2576-2593. | 7.6 | 227 |
| 7 | A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. Biomaterials, 2012, 33, 3401-3410. | 11.4 | 188 |
| 8 | Magnetic Resonance Imaging of Mesenchymal Stem Cells Homing to Pulmonary Metastases Using Biocompatible Magnetic Nanoparticles. Cancer Research, 2009, 69, 8862-8867. | 0.9 | 187 |
| 9 | Noninvasive Quantification of Solid Tumor Microstructure Using VERDICT MRI. Cancer Research, 2014, 74, 1902-1912. | 0.9 | 185 |
| 10 | Application of neurite orientation dispersion and density imaging (NODDI) to a tau pathology model of Alzheimer's disease. NeuroImage, 2016, 125, 739-744. | 4.2 | 179 |
| 11 | Characterization of tau positron emission tomography tracer [¹⁸ F]AVâ€1451 binding to postmortem tissue in Alzheimer's disease,Âprimary tauopathies, and other dementias. Alzheimer's and Dementia, 2016, 12, 1116-1124. | 0.8 | 161 |
| 12 | Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. Gut, 2014, 63, 300-309. | 12.1 | 155 |
| 13 | Clusters of iron-rich cells in the upper beak of pigeons are macrophages not magnetosensitive neurons. Nature, 2012, 484, 367-370. | 27.8 | 150 |
| 14 | Somatic activating mutations in <i>Pik3ca</i> cause sporadic venous malformations in mice and humans. Science Translational Medicine, 2016, 8, 332ra43. | 12.4 | 138 |
| 15 | Astrocytes monitor cerebral perfusion and control systemic circulation to maintain brain blood flow. Nature Communications, 2020, 11, 131. | 12.8 | 137 |
| 16 | Early changes in water diffusion, perfusion, T1, and T2 during focal cerebral ischemia in the rat studied at 8.5 T. Magnetic Resonance in Medicine, 1999, 41, 479-485. | 3.0 | 130 |
| 17 | Post-mortem examination of human fetuses: a comparison of whole-body high-field MRI at 9·4 T with conventional MRI and invasive autopsy. Lancet, The, 2009, 374, 467-475. | 13.7 | 130 |
| 18 | Directing cell therapy to anatomic target sites in vivo with magnetic resonance targeting. Nature Communications, 2015, 6, 8009. | 12.8 | 126 |

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|----|--|------|-----------|
| 19 | Magnetic Tagging Increases Delivery of Circulating Progenitors in Vascular Injury. JACC: Cardiovascular Interventions, 2009, 2, 794-802. | 2.9 | 124 |
| 20 | Superparamagnetic iron oxide nanoparticle targeting of MSCs in vascular injury. Biomaterials, 2013, 34, 1987-1994. | 11.4 | 124 |
| 21 | fMRI response to blue light delivery in the naÃ ⁻ ve brain: Implications for combined optogenetic fMRI studies. NeuroImage, 2013, 66, 634-641. | 4.2 | 122 |
| 22 | Acupuncture needling sensation: The neural correlates of deqi using fMRI. Brain Research, 2010, 1315, 111-118. | 2.2 | 113 |
| 23 | The measurement of diffusion and perfusion in biological systems using magnetic resonance imaging. Physics in Medicine and Biology, 2000, 45, R97-R138. | 3.0 | 112 |
| 24 | Non-invasive imaging of CSF-mediated brain clearance pathways via assessment of perivascular fluid movement with diffusion tensor MRI. ELife, 2018, 7, . | 6.0 | 112 |
| 25 | Targeted magnetic delivery and tracking of cells using a magnetic resonance imaging system. Biomaterials, 2010, 31, 5366-5371. | 11.4 | 109 |
| 26 | The Chronic Vascular and Haemodynamic Response after Permanent Bilateral Common Carotid Occlusion in Newborn and Adult Rats. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1066-1075. | 4.3 | 108 |
| 27 | Gold–silica quantum rattles for multimodal imaging and therapy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1959-1964. | 7.1 | 107 |
| 28 | Amniotic Fluid Stem Cells Are Cardioprotective Following Acute Myocardial Infarction. Stem Cells and Development, 2011, 20, 1985-1994. | 2.1 | 104 |
| 29 | An MRAS, SHOC2, and SCRIB Complex Coordinates ERK Pathway Activation with Polarity and Tumorigenic Growth. Molecular Cell, 2013, 52, 679-692. | 9.7 | 96 |
| 30 | Non-invasive MRI of brain clearance pathways using multiple echo time arterial spin labelling: an aquaporin-4 study. NeuroImage, 2019, 188, 515-523. | 4.2 | 92 |
| 31 | Computational fluid dynamics with imaging of cleared tissue and of in vivo perfusion predicts drug uptake and treatment responses in tumours. Nature Biomedical Engineering, 2018, 2, 773-787. | 22.5 | 91 |
| 32 | A One-Pot Three-Component Radiochemical Reaction for Rapid Assembly of ¹²⁵ I-Labeled Molecular Probes. Journal of the American Chemical Society, 2013, 135, 703-709. | 13.7 | 86 |
| 33 | In Vitro and In Vivo Cardiomyogenic Differentiation of Amniotic Fluid Stem Cells. Stem Cell Reviews and Reports, 2011, 7, 364-380. | 5.6 | 82 |
| 34 | Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. Heart Rhythm, 2015, 12, 2285-2293. | 0.7 | 82 |
| 35 | In vivo imaging of tau pathology using multi-parametric quantitative MRI. NeuroImage, 2015, 111, 369-378. | 4.2 | 77 |
| 36 | Brain imaging of acupuncture: Comparing superficial with deep needling. Neuroscience Letters, 2008, 434, 144-149. | 2.1 | 73 |

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|----|--|------|-----------|
| 37 | In vivo photoacoustic imaging of mouse embryos. Journal of Biomedical Optics, 2012, 17, 061220. | 2.6 | 71 |
| 38 | Incorporation of paramagnetic, fluorescent and PET/SPECT contrast agents into liposomes for multimodal imaging. Biomaterials, 2013, 34, 1179-1192. | 11.4 | 69 |
| 39 | Implementation of quantitative FAIR perfusion imaging with a short repetition time in time-course studies. Magnetic Resonance in Medicine, 1999, 41, 829-840. | 3.0 | 68 |
| 40 | Nanoparticles functionalised with recombinant single chain Fv antibody fragments (scFv) for the magnetic resonance imaging of cancer cells. Biomaterials, 2010, 31, 1307-1315. | 11.4 | 68 |
| 41 | Thymosin β4-sulfoxide attenuates inflammatory cell infiltration and promotes cardiac wound healing. Nature Communications, 2013, 4, 2081. | 12.8 | 66 |
| 42 | Effects of diffusion anisotropy on lesion delineation in a rat model of cerebral ischemia. Magnetic Resonance in Medicine, 1997, 38, 662-668. | 3.0 | 65 |
| 43 | Advanced cell therapies: targeting, tracking and actuation of cells with magnetic particles. Regenerative Medicine, 2015, 10, 757-772. | 1.7 | 65 |
| 44 | Mechanosensory Signaling in Astrocytes. Journal of Neuroscience, 2020, 40, 9364-9371. | 3.6 | 61 |
| 45 | Neuroprotective Effects of Virally Delivered HSPs in Experimental Stroke. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 371-381. | 4.3 | 60 |
| 46 | Automatic Structural Parcellation of Mouse Brain MRI Using Multi-Atlas Label Fusion. PLoS ONE, 2014, 9, e86576. | 2.5 | 60 |
| 47 | In vivo hadamard encoded continuous arterial spin labeling (H-CASL). Magnetic Resonance in Medicine, 2010, 63, 1111-1118. | 3.0 | 58 |
| 48 | Mitochondrial cyclophilin-D as a potential therapeutic target for post-myocardial infarction heart failure. Journal of Cellular and Molecular Medicine, 2011, 15, 2443-2451. | 3.6 | 58 |
| 49 | Magnetic resonance virtual histology for embryos: 3D atlases for automated high-throughput phenotyping. NeuroImage, 2011, 54, 769-778. | 4.2 | 57 |
| 50 | Neuroprotective effects of HSP70 overexpression after cerebral ischaemia—An MRI study. Experimental Neurology, 2005, 195, 257-266. | 4.1 | 56 |
| 51 | Sulfonium Salts as Leaving Groups for Aromatic Labelling of Drug-like Small Molecules with Fluorine-18. Scientific Reports, 2015, 5, 9941. | 3.3 | 55 |
| 52 | Vagal determinants of exercise capacity. Nature Communications, 2017, 8, 15097. | 12.8 | 55 |
| 53 | Impaired brain glymphatic flow in experimental hepatic encephalopathy. Journal of Hepatology, 2019, 70, 40-49. | 3.7 | 55 |
| 54 | Hyperthermia treatment of tumors by mesenchymal stem cell-delivered superparamagnetic iron oxide nanoparticles. International Journal of Nanomedicine, 2016, 11, 1973. | 6.7 | 53 |

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|----|--|------|-----------|
| 55 | A quantitative method for fast diffusion imaging using magnetization-prepared turboFLASH. Magnetic Resonance in Medicine, 1998, 39, 950-960. | 3.0 | 50 |
| 56 | Regional Variation of Cerebral Blood Flow and Arterial Transit Time in the Normal and Hypoperfused Rat Brain Measured Using Continuous Arterial Spin Labeling MRI. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 274-282. | 4.3 | 50 |
| 57 | Multifunctional receptor-targeted nanocomplexes for the delivery of therapeutic nucleic acids to the Brain. Biomaterials, 2013, 34, 9190-9200. | 11.4 | 49 |
| 58 | A Critical Role for Purinergic Signalling in the Mechanisms Underlying Generation of BOLD fMRI Responses. Journal of Neuroscience, 2015, 35, 5284-5292. | 3.6 | 49 |
| 59 | Mutation of the Diamond-Blackfan Anemia Gene Rps7 in Mouse Results in Morphological and Neuroanatomical Phenotypes. PLoS Genetics, 2013, 9, e1003094. | 3.5 | 47 |
| 60 | PEGylation improves the receptor-mediated transfection efficiency of peptide-targeted, self-assembling, anionic nanocomplexes. Journal of Controlled Release, 2014, 174, 177-187. | 9.9 | 47 |
| 61 | Overexpression of Heat Shock Protein 27 Reduces Cortical Damage after Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 849-856. | 4.3 | 45 |
| 62 | Loss of <i>Prox1</i> in striated muscle causes slow to fast skeletal muscle fiber conversion and dilated cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9515-9520. | 7.1 | 45 |
| 63 | Dexamethasone exacerbates cerebral edema and brain injury following lithium-pilocarpine induced status epilepticus. Neurobiology of Disease, 2014, 63, 229-236. | 4.4 | 45 |
| 64 | Tissue magnetic susceptibility mapping as a marker of tau pathology in Alzheimer's disease. Neurolmage, 2017, 159, 334-345. | 4.2 | 45 |
| 65 | Reduction of errors in ASL cerebral perfusion and arterial transit time maps using image deâ€noising. Magnetic Resonance in Medicine, 2010, 64, 715-724. | 3.0 | 43 |
| 66 | Acute changes in MRI diffusion, perfusion,T1, andT2 in a rat model of oligemia produced by partial occlusion of the middle cerebral artery. Magnetic Resonance in Medicine, 2000, 44, 706-712. | 3.0 | 42 |
| 67 | In vivo magnetic resonance imaging of endogenous neuroblasts labelled with a ferumoxide–polycation complex. NeuroImage, 2009, 44, 1239-1246. | 4.2 | 42 |
| 68 | A coming of age: advanced imaging technologies for characterising the developing mouse. Trends in Genetics, 2013, 29, 700-711. | 6.7 | 42 |
| 69 | Imaging the accumulation and suppression of tau pathology using multiparametric MRI. Neurobiology of Aging, 2016, 39, 184-194. | 3.1 | 42 |
| 70 | Origins of the vagal drive controlling left ventricular contractility. Journal of Physiology, 2016, 594, 4017-4030. | 2.9 | 42 |
| 71 | Assessment of Tumor Redox Status through (<i>S</i>)-4-(3-[18F]fluoropropyl)- <scp>L</scp> -Glutamic Acid PET Imaging of System xcâ^ Activity. Cancer Research, 2022, 79, 853-863. | 0.9 | 42 |
| 72 | pHâ€Activatable MnOâ€Based Fluorescence and Magnetic Resonance Bimodal Nanoprobe for Cancer Imaging. Advanced Healthcare Materials, 2016, 5, 721-729. | 7.6 | 40 |

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|----|---|------|-----------|
| 73 | Measuring Biexponential Transverse Relaxation of the ASL Signal at 9.4 T to Estimate Arterial Oxygen Saturation and the Time of Exchange of Labeled Blood Water into Cortical Brain Tissue. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 215-224. | 4.3 | 39 |
| 74 | fMRI mapping of the visual system in the mouse brain with interleaved snapshot GE-EPI. NeuroImage, 2016, 139, 337-345. | 4.2 | 38 |
| 75 | Planar cell polarity genes Celsr1 and Vangl2 are necessary for kidney growth, differentiation, and rostrocaudal patterning. Kidney International, 2016, 90, 1274-1284. | 5.2 | 37 |
| 76 | Comparison of In Vivo and Ex Vivo MRI for the Detection of Structural Abnormalities in a Mouse Model of Tauopathy. Frontiers in Neuroinformatics, 2017, 11, 20. | 2.5 | 37 |
| 77 | Neuroimaging of animal models of brain disease. British Medical Bulletin, 2003, 65, 235-257. | 6.9 | 36 |
| 78 | Proteome changes associated with hippocampal MRI abnormalities in the lithium pilocarpine-induced model of convulsive status epilepticus. Proteomics, 2007, 7, 1336-1344. | 2.2 | 35 |
| 79 | Myocardial regeneration: expanding the repertoire of thymosin β4 in the ischemic heart. Annals of the New York Academy of Sciences, 2012, 1269, 92-101. | 3.8 | 35 |
| 80 | lmaging seizure-induced inflammation using an antibody targeted iron oxide contrast agent. NeuroImage, 2012, 60, 1149-1155. | 4.2 | 35 |
| 81 | Estimation of pore size in a microstructure phantom using the optimised gradient waveform diffusion weighted NMR sequence. Journal of Magnetic Resonance, 2012, 214, 51-60. | 2.1 | 35 |
| 82 | Cardiac arterial spin labeling using segmented ECGâ€gated Look‣ocker FAIR: Variability and repeatability in preclinical studies. Magnetic Resonance in Medicine, 2013, 69, 238-247. | 3.0 | 35 |
| 83 | Structural abnormality of the hippocampus associated with depressive symptoms in heart failure rats. NeuroImage, 2015, 105, 84-92. | 4.2 | 35 |
| 84 | Potential of Magnetic Hyperthermia to Stimulate Localized Immune Activation. Small, 2021, 17, e2005241. | 10.0 | 35 |
| 85 | Effect of renal maturation on the clearance of technetium-99m mercaptoacetyltriglycine. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 1333-1337. | 2.1 | 34 |
| 86 | Quantitative MRI predicts status epilepticus-induced hippocampal injury in the lithium–pilocarpine rat model. Epilepsy Research, 2010, 88, 221-230. | 1.6 | 34 |
| 87 | Cardiac phenotyping in <i>ex vivo</i> murine embryos using <i>µ</i> MRI. NMR in Biomedicine, 2009, 22, 857-866. | 2.8 | 33 |
| 88 | Characterizing the Origin of the Arterial Spin Labelling Signal in MRI Using a Multiecho Acquisition Approach. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1836-1845. | 4.3 | 33 |
| 89 | Cardiovascular Magnetic Resonance Imaging in Experimental Models. Open Cardiovascular Medicine Journal, 2010, 4, 278-292. | 0.3 | 33 |
| 90 | Lipid peptide nanocomplexes for gene delivery and magnetic resonance imaging in the brain. Journal of Controlled Release, 2012, 162, 340-348. | 9.9 | 32 |

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|-----|---|------|-----------|
| 91 | Investigating Low-Velocity Fluid Flow in Tumors with Convection-MRI. Cancer Research, 2018, 78, 1859-1872. | 0.9 | 32 |
| 92 | Measurement of Tumor Antioxidant Capacity and Prediction of Chemotherapy Resistance in Preclinical Models of Ovarian Cancer by Positron Emission Tomography. Clinical Cancer Research, 2019, 25, 2471-2482. | 7.0 | 32 |
| 93 | Lung delivery of MSCs expressing anti-cancer protein TRAIL visualised with 89Zr-oxine PET-CT. Stem Cell Research and Therapy, 2020, 11, 256. | 5.5 | 32 |
| 94 | Hypertension in paediatrics: can pre- and post-captopril technetium-99m dimercaptosuccinie acid renal scans exclude renovascular disease?. European Journal of Nuclear Medicine and Molecular Imaging, 1993, 20, 699-702. | 2.1 | 31 |
| 95 | Assessment of various parameters in the estimation of differential renal function using technetium-99m mercaptoacetyltriglycine. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 155-162. | 6.4 | 31 |
| 96 | Magnetic cell delivery for peripheral arterial disease: A theoretical framework. Medical Physics, 2011, 38, 3932-3943. | 3.0 | 29 |
| 97 | Post-mortem cerebral magnetic resonance imaging T1 and T2 in fetuses, newborns and infants. European Journal of Radiology, 2012, 81, e232-e238. | 2.6 | 29 |
| 98 | Preferential Targeting of Disseminated Liver Tumors Using a Recombinant Adeno-Associated Viral Vector. Human Gene Therapy, 2015, 26, 94-103. | 2.7 | 29 |
| 99 | In vivo three-dimensional photoacoustic imaging of the renal vasculature in preclinical rodent models. American Journal of Physiology - Renal Physiology, 2018, 314, F1145-F1153. | 2.7 | 29 |
| 100 | Cancer invasion regulates vascular complexity in a three-dimensional biomimetic model. European Journal of Cancer, 2019, 119, 179-193. | 2.8 | 29 |
| 101 | Radio-metal cross-linking of alginate hydrogels for non-invasive in vivo imaging. Biomaterials, 2020, 243, 119930. | 11.4 | 29 |
| 102 | Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. Scientific Reports, 2020, 10, 9223. | 3.3 | 29 |
| 103 | Comparison of segmentation methods for MRI measurement of cardiac function in rats. Journal of Magnetic Resonance Imaging, 2010, 32, 869-877. | 3.4 | 28 |
| 104 | Structural correlates of active-staining following magnetic resonance microscopy in the mouse brain. Neurolmage, 2011, 56, 974-983. | 4.2 | 28 |
| 105 | Rapid assessment of myocardial infarct size in rodents using multi-slice inversion recovery late gadolinium enhancement CMR at 9.4T. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 44. | 3.3 | 28 |
| 106 | Amniotic Fluid Stem Cells Prevent Development of Ascites in a Neonatal Rat Model of Necrotizing Enterocolitis. European Journal of Pediatric Surgery, 2014, 24, 057-060. | 1.3 | 28 |
| 107 | Hydroxychloroquine Protects against Cardiac Ischaemia/Reperfusion Injury In Vivo via Enhancement of ERK1/2 Phosphorylation. PLoS ONE, 2015, 10, e0143771. | 2.5 | 27 |
| 108 | A critical role for the ATP-sensitive potassium channel subunit K _{IR} 6.1 in the control of cerebral Blood Flow and Metabolism, 2019, 39, 2089-2095. | 4.3 | 27 |

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|-----|--|------|-----------|
| 109 | B0dependence of the on-resonance longitudinal relaxation time in the rotating frame (T1Ï) in protein phantoms and rat brain in vivo. Magnetic Resonance in Medicine, 2004, 51, 4-8. | 3.0 | 26 |
| 110 | Longitudinal in vivo MRI in a Huntington's disease mouse model: Global atrophy in the absence of white matter microstructural damage. Scientific Reports, 2016, 6, 32423. | 3.3 | 26 |
| 111 | Longitudinal Photoacoustic Imaging of the Pharmacodynamic Effect of Vascular Targeted Therapy on Tumors. Clinical Cancer Research, 2019, 25, 7436-7447. | 7.0 | 26 |
| 112 | ls Your System Calibrated? MRI Gradient System Calibration for Pre-Clinical, High-Resolution Imaging. PLoS ONE, 2014, 9, e96568. | 2.5 | 26 |
| 113 | Protective Effect of Post-Ischaemic Viral Delivery of Heat Shock Proteins <i>in vivo</i> . Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 254-263. | 4.3 | 25 |
| 114 | Multifunctional receptor-targeted nanocomplexes for magnetic resonance imaging and transfection of tumours. Biomaterials, 2012, 33, 7241-7250. | 11.4 | 25 |
| 115 | Increased Cerebral Vascular Reactivity in the Tau Expressing rTg4510 Mouse: Evidence against the Role of Tau Pathology to Impair Vascular Health in Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 359-362. | 4.3 | 25 |
| 116 | Bone marrow mononuclear cells reduce myocardial reperfusion injury by activating the PI3K/Akt survival pathway. Atherosclerosis, 2010, 213, 67-76. | 0.8 | 24 |
| 117 | Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. ACS Omega, 2018, 3, 4342-4351. | 3.5 | 24 |
| 118 | High-Fidelity Meshes from Tissue Samples for Diffusion MRI Simulations. Lecture Notes in Computer Science, 2010, 13, 404-411. | 1.3 | 24 |
| 119 | Estimation and relevance of depth correction in paediatric renal studies. European Journal of Nuclear Medicine and Molecular Imaging, 1998, 25, 115-119. | 6.4 | 23 |
| 120 | Simultaneous noninvasive measurement of CBF and CBV using double-echo FAIR (DEFAIR). Magnetic Resonance in Medicine, 2001, 45, 853-863. | 3.0 | 23 |
| 121 | MR image-guided investigation of regional signal transducers and activators of transcription-1 activation in a rat model of focal cerebral ischemia. Neuroscience, 2004, 127, 333-339. | 2.3 | 23 |
| 122 | In vivo measurement of the longitudinal relaxation time of arterial blood (T1a) in the mouse using a pulsed arterial spin labeling approach. Magnetic Resonance in Medicine, 2006, 55, 943-947. | 3.0 | 23 |
| 123 | Magnetic hyperthermia controlled drug release in the GI tract: solving the problem of detection. Scientific Reports, 2016, 6, 34271. | 3.3 | 23 |
| 124 | CO2 signaling mediates neurovascular coupling in the cerebral cortex. Nature Communications, 2022, 13, 2125. | 12.8 | 23 |
| 125 | Viable and fixed white matter: Diffusion magnetic resonance comparisons and contrasts at physiological temperature. Magnetic Resonance in Medicine, 2014, 72, 1151-1161. | 3.0 | 22 |
| 126 | Early microgliosis precedes neuronal loss and behavioural impairment in mice with a frontotemporal dementia-causing CHMP2B mutation. Human Molecular Genetics, 2017, 26, ddx003. | 2.9 | 22 |

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|-----|---|-----|-----------|
| 127 | Study the Longitudinal in vivo and Cross-Sectional ex vivo Brain Volume Difference for Disease Progression and Treatment Effect on Mouse Model of Tauopathy Using Automated MRI Structural Parcellation. Frontiers in Neuroscience, 2019, 13, 11. | 2.8 | 22 |
| 128 | Selective Interleukin-6 Trans-Signaling Blockade Is More Effective Than Panantagonism in Reperfused MyocardialÂInfarction. JACC Basic To Translational Science, 2021, 6, 431-443. | 4.1 | 22 |
| 129 | The relationship between magnetic resonance diffusion imaging and autoradiographic markers of cerebral blood flow and hypoxia in an animal stroke model. Magnetic Resonance in Medicine, 1999, 41, 706-714. | 3.0 | 20 |
| 130 | Bimodal Imaging of Inflammation with SPECT/CT and MRI Using Iodine-125 Labeled VCAM-1 Targeting Microparticle Conjugates. Bioconjugate Chemistry, 2015, 26, 1542-1549. | 3.6 | 20 |
| 131 | Caval Subtraction 2D Phase-Contrast MRI to Measure Total Liver and Hepatic Arterial Blood Flow. Investigative Radiology, 2017, 52, 170-176. | 6.2 | 20 |
| 132 | Increased blood–brain barrier permeability to water in the aging brain detected using noninvasive multiâ€TE ASL MRI. Magnetic Resonance in Medicine, 2021, 85, 326-333. | 3.0 | 20 |
| 133 | Comparative Study of the FAIR Technique of Perfusion Quantification with the Hydrogen Clearance Method. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 689-699. | 4.3 | 19 |
| 134 | Development of [¹⁸ F]AldoView as the First Highly Selective Aldosterone Synthase PET Tracer for Imaging of Primary Hyperaldosteronism. Journal of Medicinal Chemistry, 2021, 64, 9321-9329. | 6.4 | 19 |
| 135 | Fully-Automated μ4MRI Morphometric Phenotyping of the Tc1 Mouse Model of Down Syndrome. PLoS ONE, 2016, 11, e0162974. | 2.5 | 19 |
| 136 | Hepatic arterial spin labelling MRI: an initial evaluation in mice. NMR in Biomedicine, 2015, 28, 272-280. | 2.8 | 18 |
| 137 | Development of Fluorine-18 Labeled Metabolically Activated Tracers for Imaging of Drug Efflux Transporters with Positron Emission Tomography. Journal of Medicinal Chemistry, 2015, 58, 6058-6080. | 6.4 | 18 |
| 138 | Coordination chemistry of amide-functionalised tetraazamacrocycles: structural, relaxometric and cytotoxicity studies. Dalton Transactions, 2010, 39, 10056. | 3.3 | 17 |
| 139 | Quantification of light attenuation in optically cleared mouse brains. Journal of Biomedical Optics, 2015, 20, 080503. | 2.6 | 17 |
| 140 | Vascular assessment of liver disease—towards a new frontier in MRI. British Journal of Radiology, 2016, 89, 20150675. | 2.2 | 17 |
| 141 | Optic nerve thinning and neurosensory retinal degeneration in the rTg4510 mouse model of frontotemporal dementia. Acta Neuropathologica Communications, 2019, 7, 4. | 5.2 | 17 |
| 142 | Monitoring the Growth of an Orthotopic Tumour Xenograft Model: Multi-Modal Imaging Assessment with Benchtop MRI (1T), High-Field MRI (9.4T), Ultrasound and Bioluminescence. PLoS ONE, 2016, 11, e0156162. | 2.5 | 17 |
| 143 | Rapid Simultaneous Mapping of T2 and T2* by Multiple Acquisition of Spin and Gradient Echoes Using Interleaved Echo Planar Imaging (MASAGE-IEPI). NeuroImage, 2002, 15, 992-1002. | 4.2 | 16 |
| 144 | A viable isolated tissue system: A tool for detailed MR measurements and controlled perturbation in physiologically stable tissue. Magnetic Resonance in Medicine, 2013, 69, 1603-1610. | 3.0 | 16 |

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|-----|---|-----|-----------|
| 145 | Multislice cardiac arterial spin labeling using improved myocardial perfusion quantification with simultaneously measured blood pool input function. Magnetic Resonance in Medicine, 2013, 70, 1125-1136. | 3.0 | 16 |
| 146 | Detecting intratumoral heterogeneity of EGFR activity by liposome-based in vivo transfection of a fluorescent biosensor. Oncogene, 2017, 36, 3618-3628. | 5.9 | 16 |
| 147 | Cerebrovascular Reactivity Following Focal Brain Ischemia in the Rat: A Functional Magnetic Resonance Imaging Study. NeuroImage, 2001, 13, 339-350. | 4.2 | 15 |
| 148 | Development of Purine-Derived ¹⁸ F-Labeled Pro-drug Tracers for Imaging of MRP1 Activity with PET. Journal of Medicinal Chemistry, 2014, 57, 1023-1032. | 6.4 | 15 |
| 149 | Decomposition of spontaneous fluctuations in tumour oxygenation using BOLD MRI and independent component analysis. British Journal of Cancer, 2015, 113, 1168-1177. | 6.4 | 15 |
| 150 | Using the robust principal component analysis algorithm to remove RF spike artifacts from MR images. Magnetic Resonance in Medicine, 2016, 75, 2517-2525. | 3.0 | 15 |
| 151 | Non-invasive MRI biomarkers for the early assessment of iron overload in a humanized mouse model of β-thalassemia. Scientific Reports, 2017, 7, 43439. | 3.3 | 15 |
| 152 | Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. Chemical Science, 2019, 10, 2592-2597. | 7.4 | 15 |
| 153 | Reperfusion in a Gerbil Model of Forebrain Ischemia Using Serial Magnetic Resonance FAIR Perfusion Imaging. Stroke, 1999, 30, 1263-1270. | 2.0 | 14 |
| 154 | Understanding and optimizing the amplitude modulated control for multiple-slice continuous arterial spin labeling. Magnetic Resonance in Medicine, 2005, 54, 594-604. | 3.0 | 14 |
| 155 | Segmentation propagation using a 3D embryo atlas for highâ€throughput MRI phenotyping: Comparison and validation with manual segmentation. Magnetic Resonance in Medicine, 2013, 69, 877-883. | 3.0 | 14 |
| 156 | Significant Therapeutic Efficacy with Combined Radioimmunotherapy and Cetuximab in Preclinical Models of Colorectal Cancer. Journal of Nuclear Medicine, 2015, 56, 1239-1245. | 5.0 | 14 |
| 157 | Multi-modal imaging probe for assessing the efficiency of stem cell delivery to orthotopic breast tumours. Nanoscale, 2020, 12, 16570-16585. | 5.6 | 14 |
| 158 | Autoradiographic imaging of cerebral ischaemia using a combination of blood flow and hypoxic markers in an animal model. European Journal of Nuclear Medicine and Molecular Imaging, 1997, 24, 16-20. | 2.1 | 13 |
| 159 | High resolution MRI reveals global changes in brains of Cln3 mutant mice. European Journal of Paediatric Neurology, 2001, 5, 103-107. | 1.6 | 13 |
| 160 | Rapid magnetic cell delivery for large tubular bioengineered constructs. Journal of the Royal Society Interface, 2012, 9, 3008-3016. | 3.4 | 13 |
| 161 | Acute changes in liver tumour perfusion measured non-invasively with arterial spin labelling. British Journal of Cancer, 2016, 114, 897-904. | 6.4 | 13 |
| 162 | Estimation of contrast agent bolus arrival delays for improved reproducibility of liver DCE MRI. Physics in Medicine and Biology, 2016, 61, 6905-6918. | 3.0 | 12 |

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| # | Article | IF | CITATIONS |
|-----|--|------------|--------------|
| 163 | Volumetric Spatial Correlations of Neurovascular Coupling Studied using Single Pulse Opto-fMRI. Scientific Reports, 2017, 7, 41583. | 3.3 | 12 |
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