

# Mark F Lythgoe

## List of Publications by Year in descending order

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Version: 2024-02-01

224  
papers

10,876  
citations

36303

51  
h-index

42399

92  
g-index

242  
all docs

242  
docs citations

242  
times ranked

17695  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of Tumor Redox Status through ( <i>S</i> )-4-(3-[ <sup>18</sup> F]fluoropropyl)-L-Glutamic Acid PET Imaging of Systemic Activity. <i>Cancer Research</i> , 2022, 79, 853-863.	0.9	42
2	Image-Guided Magnetic Thermoseed Navigation and Tumor Ablation Using a Magnetic Resonance Imaging System. <i>Advanced Science</i> , 2022, , 2105333.	11.2	8
3	Remote and Selective Control of Astrocytes by Magnetomechanical Stimulation. <i>Advanced Science</i> , 2022, 9, e2104194.	11.2	12
4	CO <sub>2</sub> signaling mediates neurovascular coupling in the cerebral cortex. <i>Nature Communications</i> , 2022, 13, 2125.	12.8	23
5	Liver perfusion MRI in a rodent model of cirrhosis: Agreement with bulk-flow phase-contrast MRI and noninvasive evaluation of inflammation in chronic liver disease using flow-sensitive alternating inversion recovery arterial spin labelling and tissue T1. <i>NMR in Biomedicine</i> , 2021, 34, e4423.	2.8	4
6	Increased blood-brain barrier permeability to water in the aging brain detected using noninvasive multi-TE ASL MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 326-333.	3.0	20
7	Haemodynamic changes in cirrhosis following terlipressin and induction of sepsis—a preclinical study using caval subtraction phase-contrast and cardiac MRI. <i>European Radiology</i> , 2021, 31, 2518-2528.	4.5	3
8	Potential of Magnetic Hyperthermia to Stimulate Localized Immune Activation. <i>Small</i> , 2021, 17, e2005241.	10.0	35
9	Myocardial Viability Imaging using Manganese-Enhanced MRI in the First Hours after Myocardial Infarction. <i>Advanced Science</i> , 2021, 8, e2003987.	11.2	8
10	Selective Interleukin-6 Trans-Signaling Blockade Is More Effective Than Panantagonism in Reperfused Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2021, 6, 431-443.	4.1	22
11	Development of [ <sup>18</sup> F]AldoView as the First Highly Selective Aldosterone Synthase PET Tracer for Imaging of Primary Hyperaldosteronism. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 9321-9329.	6.4	19
12	Cardiac-induced liver deformation as a measure of liver stiffness using dynamic imaging without magnetization tagging—a preclinical proof-of-concept, clinical translation, reproducibility and feasibility in patients with cirrhosis. <i>Abdominal Radiology</i> , 2021, 46, 4660-4670.	2.1	4
13	Pharmacological MRI with Simultaneous Measurement of Cerebral Perfusion and Blood-Cerebrospinal Fluid Barrier Function using Interleaved Echo-Time Arterial Spin Labelling. <i>NeuroImage</i> , 2021, 238, 118270.	4.2	11
14	Astrocytes monitor cerebral perfusion and control systemic circulation to maintain brain blood flow. <i>Nature Communications</i> , 2020, 11, 131.	12.8	137
15	Impaired glymphatic function and clearance of tau in an Alzheimer's disease model. <i>Brain</i> , 2020, 143, 2576-2593.	7.6	227
16	Multi-modal imaging probe for assessing the efficiency of stem cell delivery to orthotopic breast tumours. <i>Nanoscale</i> , 2020, 12, 16570-16585.	5.6	14
17	Mechanosensory Signaling in Astrocytes. <i>Journal of Neuroscience</i> , 2020, 40, 9364-9371.	3.6	61
18	Substantially thinner internal granular layer and reduced molecular layer surface in the cerebellar cortex of the Tc1 mouse model of down syndrome—a comprehensive morphometric analysis with active staining contrast-enhanced MRI. <i>NeuroImage</i> , 2020, 223, 117271.	4.2	7

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19	Stem cell delivery to kidney via minimally invasive ultrasound-guided renal artery injection in mice. <i>Scientific Reports</i> , 2020, 10, 7514.	3.3	10
20	Scalable magnet geometries enhance tumour targeting of magnetic nano-carriers. <i>Materials and Design</i> , 2020, 191, 108610.	7.0	11
21	Radio-metal cross-linking of alginate hydrogels for non-invasive in vivo imaging. <i>Biomaterials</i> , 2020, 243, 119930.	11.4	29
22	Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. <i>Scientific Reports</i> , 2020, 10, 9223.	3.3	29
23	Lung delivery of MSCs expressing anti-cancer protein TRAIL visualised with 89Zr-oxine PET-CT. <i>Stem Cell Research and Therapy</i> , 2020, 11, 256.	5.5	32
24	Measuring diffusion exchange across the cell membrane with DEXSY (Diffusion Exchange) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	3.0	9
25	A critical role for the ATP-sensitive potassium channel subunit K <sub>IR</sub> 6.1 in the control of cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2089-2095.	4.3	27
26	Cancer invasion regulates vascular complexity in a three-dimensional biomimetic model. <i>European Journal of Cancer</i> , 2019, 119, 179-193.	2.8	29
27	Surface radio-mineralisation mediates chelate-free radiolabelling of iron oxide nanoparticles. <i>Chemical Science</i> , 2019, 10, 2592-2597.	7.4	15
28	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. <i>Frontiers in Neuroscience</i> , 2019, 13, 11.	2.8	22
29	Optic nerve thinning and neurosensory retinal degeneration in the rTg4510 mouse model of frontotemporal dementia. <i>Acta Neuropathologica Communications</i> , 2019, 7, 4.	5.2	17
30	Electrochemical carbon fiber-based technique for simultaneous recordings of brain tissue PO <sub>2</sub> , pH, and extracellular field potentials. <i>Biosensors and Bioelectronics: X</i> , 2019, 3, 100034.	1.7	10
31	Impaired brain glymphatic flow in experimental hepatic encephalopathy. <i>Journal of Hepatology</i> , 2019, 70, 40-49.	3.7	55
32	Non-invasive MRI of brain clearance pathways using multiple echo time arterial spin labelling: an aquaporin-4 study. <i>NeuroImage</i> , 2019, 188, 515-523.	4.2	92
33	Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2666-2675.	3.0	6
34	Measurement of Tumor Antioxidant Capacity and Prediction of Chemotherapy Resistance in Preclinical Models of Ovarian Cancer by Positron Emission Tomography. <i>Clinical Cancer Research</i> , 2019, 25, 2471-2482.	7.0	32
35	Longitudinal Photoacoustic Imaging of the Pharmacodynamic Effect of Vascular Targeted Therapy on Tumors. <i>Clinical Cancer Research</i> , 2019, 25, 7436-7447.	7.0	26
36	Chemically Treated 3D Printed Polymer Scaffolds for Biomineral Formation. <i>ACS Omega</i> , 2018, 3, 4342-4351.	3.5	24

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37	Investigating Low-Velocity Fluid Flow in Tumors with Convection-MRI. <i>Cancer Research</i> , 2018, 78, 1859-1872.	0.9	32
38	Computational fluid dynamics with imaging of cleared tissue and of in vivo perfusion predicts drug uptake and treatment responses in tumours. <i>Nature Biomedical Engineering</i> , 2018, 2, 773-787.	22.5	91
39	Non-invasive imaging of disrupted protein homeostasis induced by proteasome inhibitor treatment using chemical exchange saturation transfer MRI. <i>Scientific Reports</i> , 2018, 8, 15068.	3.3	0
40	In vivo three-dimensional photoacoustic imaging of the renal vasculature in preclinical rodent models. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F1145-F1153.	2.7	29
41	Experimental Models of Brain Disease: MRI Studies. , 2018, , 93-120.		0
42	Non-invasive imaging of CSF-mediated brain clearance pathways via assessment of perivascular fluid movement with diffusion tensor MRI. <i>ELife</i> , 2018, 7, .	6.0	112
43	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2018, , 63-92.		0
44	Aberrant developmental titin splicing and dysregulated sarcomere length in Thymosin $\beta$ 4 knockout mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 102, 94-107.	1.9	10
45	Detecting intratumoral heterogeneity of EGFR activity by liposome-based in vivo transfection of a fluorescent biosensor. <i>Oncogene</i> , 2017, 36, 3618-3628.	5.9	16
46	Volumetric Spatial Correlations of Neurovascular Coupling Studied using Single Pulse Opto-fMRI. <i>Scientific Reports</i> , 2017, 7, 41583.	3.3	12
47	Improved hepatic arterial fraction estimation using cardiac output correction of arterial input functions for liver DCE MRI. <i>Physics in Medicine and Biology</i> , 2017, 62, 1533-1546.	3.0	6
48	Vagal determinants of exercise capacity. <i>Nature Communications</i> , 2017, 8, 15097.	12.8	55
49	Non-invasive MRI biomarkers for the early assessment of iron overload in a humanized mouse model of $\beta$ -thalassemia. <i>Scientific Reports</i> , 2017, 7, 43439.	3.3	15
50	Magnet-Targeted Delivery and Imaging. , 2017, , 123-152.		5
51	Use of high-frequency ultrasound to study the prenatal development of cranial neural tube defects and hydrocephalus in <i>Gldc</i> -deficient mice. <i>Prenatal Diagnosis</i> , 2017, 37, 273-281.	2.3	9
52	Quantifying the area-at-risk of myocardial infarction in-vivo using arterial spin labeling cardiac magnetic resonance. <i>Scientific Reports</i> , 2017, 7, 2271.	3.3	11
53	Caval Subtraction 2D Phase-Contrast MRI to Measure Total Liver and Hepatic Arterial Blood Flow. <i>Investigative Radiology</i> , 2017, 52, 170-176.	6.2	20
54	Tissue magnetic susceptibility mapping as a marker of tau pathology in Alzheimer's disease. <i>NeuroImage</i> , 2017, 159, 334-345.	4.2	45

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55	Direct comparison of high temporal resolution CINE MRI with Doppler ultrasound for assessment of diastolic dysfunction in mice. <i>NMR in Biomedicine</i> , 2017, 30, e3763.	2.8	4
56	Imaging biomarker roadmap for cancer studies. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 169-186.	27.6	792
57	Early microgliosis precedes neuronal loss and behavioural impairment in mice with a frontotemporal dementia-causing CHMP2B mutation. <i>Human Molecular Genetics</i> , 2017, 26, ddx003.	2.9	22
58	Comparison of In Vivo and Ex Vivo MRI for the Detection of Structural Abnormalities in a Mouse Model of Tauopathy. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 20.	2.5	37
59	In Vivo Imaging of Tau Pathology Using Magnetic Resonance Imaging Textural Analysis. <i>Frontiers in Neuroscience</i> , 2017, 11, 599.	2.8	7
60	Experimental Models of Brain Disease: MRI Contrast Mechanisms for the Assessment of Pathophysiological Status. , 2017, , 1-30.		0
61	Experimental Models of Brain Disease: MRI Studies. , 2017, , 1-28.		0
62	Hyperthermia treatment of tumors by mesenchymal stem cell-delivered superparamagnetic iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2016, 11, 1973.	6.7	53
63	pH-Activatable Mn-Based Fluorescence and Magnetic Resonance Bimodal Nanoprobe for Cancer Imaging. <i>Advanced Healthcare Materials</i> , 2016, 5, 721-729.	7.6	40
64	Imaging the accumulation and suppression of tau pathology using multiparametric MRI. <i>Neurobiology of Aging</i> , 2016, 39, 184-194.	3.1	42
65	Vascular assessment of liver disease—towards a new frontier in MRI. <i>British Journal of Radiology</i> , 2016, 89, 20150675.	2.2	17
66	Planar cell polarity genes <i>Celsr1</i> and <i>Vangl2</i> are necessary for kidney growth, differentiation, and rostrocaudal patterning. <i>Kidney International</i> , 2016, 90, 1274-1284.	5.2	37
67	Using the robust principal component analysis algorithm to remove RF spike artifacts from MR images. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 2517-2525.	3.0	15
68	Use of Caval Subtraction 2D Phase-Contrast MR Imaging to Measure Total Liver and Hepatic Arterial Blood Flow: Preclinical Validation and Initial Clinical Translation. <i>Radiology</i> , 2016, 280, 916-923.	7.3	8
69	Origins of the vagal drive controlling left ventricular contractility. <i>Journal of Physiology</i> , 2016, 594, 4017-4030.	2.9	42
70	Magnetic hyperthermia controlled drug release in the GI tract: solving the problem of detection. <i>Scientific Reports</i> , 2016, 6, 34271.	3.3	23
71	Somatic activating mutations in <i>Pik3ca</i> cause sporadic venous malformations in mice and humans. <i>Science Translational Medicine</i> , 2016, 8, 332ra43.	12.4	138
72	Longitudinal in vivo MRI in a Huntington's disease mouse model: Global atrophy in the absence of white matter microstructural damage. <i>Scientific Reports</i> , 2016, 6, 32423.	3.3	26

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73	Estimation of contrast agent bolus arrival delays for improved reproducibility of liver DCE MRI. <i>Physics in Medicine and Biology</i> , 2016, 61, 6905-6918.	3.0	12
74	Acute changes in liver tumour perfusion measured non-invasively with arterial spin labelling. <i>British Journal of Cancer</i> , 2016, 114, 897-904.	6.4	13
75	fMRI mapping of the visual system in the mouse brain with interleaved snapshot GE-EPI. <i>NeuroImage</i> , 2016, 139, 337-345.	4.2	38
76	Characterization of tau positron emission tomography tracer [ <sup>18</sup> F]AV-451 binding to postmortem tissue in Alzheimer's disease, primary tauopathies, and other dementias. <i>Alzheimer's and Dementia</i> , 2016, 12, 1116-1124.	0.8	161
77	Application of neurite orientation dispersion and density imaging (NODDI) to a tau pathology model of Alzheimer's disease. <i>NeuroImage</i> , 2016, 125, 739-744.	4.2	179
78	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. <i>PLoS ONE</i> , 2016, 11, e0156162.	2.5	17
79	Fully-Automated <sup>1</sup> H MRI Morphometric Phenotyping of the Tc1 Mouse Model of Down Syndrome. <i>PLoS ONE</i> , 2016, 11, e0162974.	2.5	19
80	Sulfonium Salts as Leaving Groups for Aromatic Labelling of Drug-like Small Molecules with Fluorine-18. <i>Scientific Reports</i> , 2015, 5, 9941.	3.3	55
81	Decomposition of spontaneous fluctuations in tumour oxygenation using BOLD MRI and independent component analysis. <i>British Journal of Cancer</i> , 2015, 113, 1168-1177.	6.4	15
82	Flow-Based Single Cell Deposition for High-Throughput Screening of Protein Libraries. <i>PLoS ONE</i> , 2015, 10, e0140730.	2.5	3
83	Hydroxychloroquine Protects against Cardiac Ischaemia/Reperfusion Injury In Vivo via Enhancement of ERK1/2 Phosphorylation. <i>PLoS ONE</i> , 2015, 10, e0143771.	2.5	27
84	Optical clearing of the mouse brain and light attenuation quantitation. , 2015, , .		0
85	Quantification of light attenuation in optically cleared mouse brains. <i>Journal of Biomedical Optics</i> , 2015, 20, 080503.	2.6	17
86	Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. <i>Heart Rhythm</i> , 2015, 12, 2285-2293.	0.7	82
87	Gold-silica quantum rattles for multimodal imaging and therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1959-1964.	7.1	107
88	Preferential Targeting of Disseminated Liver Tumors Using a Recombinant Adeno-Associated Viral Vector. <i>Human Gene Therapy</i> , 2015, 26, 94-103.	2.7	29
89	In vivo imaging of tau pathology using multi-parametric quantitative MRI. <i>NeuroImage</i> , 2015, 111, 369-378.	4.2	77
90	Hepatic arterial spin labelling MRI: an initial evaluation in mice. <i>NMR in Biomedicine</i> , 2015, 28, 272-280.	2.8	18

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91	Deep in vivo photoacoustic imaging of mammalian tissues using a tyrosinase-based genetic reporter. <i>Nature Photonics</i> , 2015, 9, 239-246.	31.4	362
92	Significant Therapeutic Efficacy with Combined Radioimmunotherapy and Cetuximab in Preclinical Models of Colorectal Cancer. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1239-1245.	5.0	14
93	Development of Fluorine-18 Labeled Metabolically Activated Tracers for Imaging of Drug Efflux Transporters with Positron Emission Tomography. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6058-6080.	6.4	18
94	Diffusion microscopic MRI of the mouse embryo: Protocol and practical implementation in the mouse model. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 731-739.	3.0	3
95	Fluorescence-guided development of a tricistronic vector encoding bimodal optical and nuclear genetic reporters for in vivo cellular imaging. <i>EJNMMI Research</i> , 2015, 5, 18.	2.5	6
96	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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 359-362.	4.3	25
97	Advanced cell therapies: targeting, tracking and actuation of cells with magnetic particles. <i>Regenerative Medicine</i> , 2015, 10, 757-772.	1.7	65
98	Bimodal Imaging of Inflammation with SPECT/CT and MRI Using Iodine-125 Labeled VCAM-1 Targeting Microparticle Conjugates. <i>Bioconjugate Chemistry</i> , 2015, 26, 1542-1549.	3.6	20
99	Directing cell therapy to anatomic target sites in vivo with magnetic resonance targeting. <i>Nature Communications</i> , 2015, 6, 8009.	12.8	126
100	A Critical Role for Purinergic Signalling in the Mechanisms Underlying Generation of BOLD fMRI Responses. <i>Journal of Neuroscience</i> , 2015, 35, 5284-5292.	3.6	49
101	Structural abnormality of the hippocampus associated with depressive symptoms in heart failure rats. <i>NeuroImage</i> , 2015, 105, 84-92.	4.2	35
102	Grey Matter Sublayer Thickness Estimation in the Mouse Cerebellum. <i>Lecture Notes in Computer Science</i> , 2015, , 644-651.	1.3	0
103	Automatic Structural Parcellation of Mouse Brain MRI Using Multi-Atlas Label Fusion. <i>PLoS ONE</i> , 2014, 9, e86576.	2.5	60
104	In Amnio MRI of Mouse Embryos. <i>PLoS ONE</i> , 2014, 9, e109143.	2.5	0
105	Amniotic Fluid Stem Cells Prevent Development of Ascites in a Neonatal Rat Model of Necrotizing Enterocolitis. <i>European Journal of Pediatric Surgery</i> , 2014, 24, 057-060.	1.3	28
106	Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. <i>Gut</i> , 2014, 63, 300-309.	12.1	155
107	Multimodality characterization of microstructure by the combination of diffusion NMR and time-domain diffuse optical data. <i>Physics in Medicine and Biology</i> , 2014, 59, 2639-2658.	3.0	3
108	PEGylation improves the receptor-mediated transfection efficiency of peptide-targeted, self-assembling, anionic nanocomplexes. <i>Journal of Controlled Release</i> , 2014, 174, 177-187.	9.9	47

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109	Viable and fixed white matter: Diffusion magnetic resonance comparisons and contrasts at physiological temperature. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1151-1161.	3.0	22
110	Development of Purine-Derived <sup>18</sup> F-Labeled Pro-drug Tracers for Imaging of MRP1 Activity with PET. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1023-1032.	6.4	15
111	Coupled cellular therapy and magnetic targeting for airway regeneration. <i>Biochemical Society Transactions</i> , 2014, 42, 657-661.	3.4	7
112	Loss of <i>Prox1</i> in striated muscle causes slow to fast skeletal muscle fiber conversion and dilated cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9515-9520.	7.1	45
113	Noninvasive Quantification of Solid Tumor Microstructure Using VERDICT MRI. <i>Cancer Research</i> , 2014, 74, 1902-1912.	0.9	185
114	Dexamethasone exacerbates cerebral edema and brain injury following lithium-pilocarpine induced status epilepticus. <i>Neurobiology of Disease</i> , 2014, 63, 229-236.	4.4	45
115	Is Your System Calibrated? MRI Gradient System Calibration for Pre-Clinical, High-Resolution Imaging. <i>PLoS ONE</i> , 2014, 9, e96568.	2.5	26
116	Cardiac arterial spin labeling using segmented ECG-gated Look-Locker FAIR: Variability and repeatability in preclinical studies. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 238-247.	3.0	35
117	Segmentation propagation using a 3D embryo atlas for high-throughput MRI phenotyping: Comparison and validation with manual segmentation. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 877-883.	3.0	14
118	A viable isolated tissue system: A tool for detailed MR measurements and controlled perturbation in physiologically stable tissue. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1603-1610.	3.0	16
119	Multifunctional receptor-targeted nanocomplexes for the delivery of therapeutic nucleic acids to the Brain. <i>Biomaterials</i> , 2013, 34, 9190-9200.	11.4	49
120	An MRAS, SHOC2, and SCRIB Complex Coordinates ERK Pathway Activation with Polarity and Tumorigenic Growth. <i>Molecular Cell</i> , 2013, 52, 679-692.	9.7	96
121	A coming of age: advanced imaging technologies for characterising the developing mouse. <i>Trends in Genetics</i> , 2013, 29, 700-711.	6.7	42
122	A One-Pot Three-Component Radiochemical Reaction for Rapid Assembly of <sup>125</sup> I-Labeled Molecular Probes. <i>Journal of the American Chemical Society</i> , 2013, 135, 703-709.	13.7	86
123	Enhanced tissue differentiation in the developing mouse brain using magnetic resonance micro-histology. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1380-1388.	3.0	10
124	Synthesis and evaluation of a <sup>125</sup> I-labeled iminodihydroquinoline-derived tracer for imaging of voltage-gated sodium channels. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5170-5173.	2.2	6
125	Novel exomphalos genetic mouse model: The importance of accurate phenotypic classification. <i>Journal of Pediatric Surgery</i> , 2013, 48, 2036-2042.	1.6	8
126	Thymosin $\beta$ 4-sulfoxide attenuates inflammatory cell infiltration and promotes cardiac wound healing. <i>Nature Communications</i> , 2013, 4, 2081.	12.8	66

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127	In vivo imaging of glucose uptake and metabolism in tumors. <i>Nature Medicine</i> , 2013, 19, 1067-1072.	30.7	427
128	Incorporation of paramagnetic, fluorescent and PET/SPECT contrast agents into liposomes for multimodal imaging. <i>Biomaterials</i> , 2013, 34, 1179-1192.	11.4	69
129	Superparamagnetic iron oxide nanoparticle targeting of MSCs in vascular injury. <i>Biomaterials</i> , 2013, 34, 1987-1994.	11.4	124
130	fMRI response to blue light delivery in the naïve brain: Implications for combined optogenetic fMRI studies. <i>NeuroImage</i> , 2013, 66, 634-641.	4.2	122
131	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. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 215-224.	4.3	39
132	Mutation of the Diamond-Blackfan Anemia Gene <i>Rps7</i> in Mouse Results in Morphological and Neuroanatomical Phenotypes. <i>PLoS Genetics</i> , 2013, 9, e1003094.	3.5	47
133	Monitoring systemic amyloidosis using MRI measurements of the extracellular volume fraction. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2013, 20, 93-98.	3.0	7
134	Multislice cardiac arterial spin labeling using improved myocardial perfusion quantification with simultaneously measured blood pool input function. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1125-1136.	3.0	16
135	Primed Infusion with Delayed Equilibrium of Gd.DTPA for Enhanced Imaging of Small Pulmonary Metastases. <i>PLoS ONE</i> , 2013, 8, e54903.	2.5	2
136	Monitoring ferumoxide-labelled neural progenitor cells and lesion evolution by magnetic resonance imaging in a model of cell transplantation in cerebral ischaemia. <i>F1000Research</i> , 2013, 2, 252.	1.6	1
137	In vivo photoacoustic imaging of mouse embryos. <i>Journal of Biomedical Optics</i> , 2012, 17, 061220.	2.6	71
138	Rapid magnetic cell delivery for large tubular bioengineered constructs. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3008-3016.	3.4	13
139	In vivo photoacoustic imaging of tyrosinase expressing tumours in mice. , 2012, , .		6
140	Evaluation of a <sup>125</sup> I-labelled benzazepinone derived voltage-gated sodium channel blocker for imaging with SPECT. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 9474.	2.8	5
141	Multifunctional receptor-targeted nanocomplexes for magnetic resonance imaging and transfection of tumours. <i>Biomaterials</i> , 2012, 33, 7241-7250.	11.4	25
142	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
143	Myocardial regeneration: expanding the repertoire of thymosin $\beta_4$ in the ischemic heart. <i>Annals of the New York Academy of Sciences</i> , 2012, 1269, 92-101.	3.8	35
144	Lipid peptide nanocomplexes for gene delivery and magnetic resonance imaging in the brain. <i>Journal of Controlled Release</i> , 2012, 162, 340-348.	9.9	32

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145	Compartment models of the diffusion MR signal in brain white matter: A taxonomy and comparison. <i>NeuroImage</i> , 2012, 59, 2241-2254.	4.2	372
146	Imaging seizure-induced inflammation using an antibody targeted iron oxide contrast agent. <i>NeuroImage</i> , 2012, 60, 1149-1155.	4.2	35
147	Clusters of iron-rich cells in the upper beak of pigeons are macrophages not magnetosensitive neurons. <i>Nature</i> , 2012, 484, 367-370.	27.8	150
148	The importance of RF bandwidth for effective tagging in pulsed arterial spin labeling MRI at 9.4T. <i>NMR in Biomedicine</i> , 2012, 25, 1139-1143.	2.8	10
149	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. <i>Biomaterials</i> , 2012, 33, 3401-3410.	11.4	188
150	Estimation of pore size in a microstructure phantom using the optimised gradient waveform diffusion weighted NMR sequence. <i>Journal of Magnetic Resonance</i> , 2012, 214, 51-60.	2.1	35
151	Imaging the paediatric lung: what does nanotechnology have to offer?. <i>Paediatric Respiratory Reviews</i> , 2012, 13, 84-88.	1.8	6
152	Extracranial measurements of amide proton transfer using exchangeâ€modulated pointâ€resolved spectroscopy (EXPRESS). <i>NMR in Biomedicine</i> , 2012, 25, 829-834.	2.8	5
153	De novo cardiomyocytes from within the activated adult heart after injury. <i>Nature</i> , 2011, 474, 640-644.	27.8	602
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