G Allan Johnson

List of Publications by Year
in descending order

261 papers	11,684 citations	31976 53 h-index	45317 90 g-index
275 all docs	275 docs citations	275 times ranked	10394 citing authors

#	Article	IF	Citations
1	A timeâ€course study of actively stained mouse brains: Diffusion tensor imaging parameters and connectomic stability over 1 year. NMR in Biomedicine, 2022, 35, e4611.	2.8	1
2	Structural Connectivity of Human Inferior Colliculus Subdivisions Using in vivo and post mortem Diffusion MRI Tractography. Frontiers in Neuroscience, 2022, 16, 751595.	2.8	1
3	Resolution and b value dependent structural connectome in ex vivo mouse brain. NeuroImage, 2022, 255, 119199.	4.2	10
4	Tractography of Porcine Meniscus Microstructure Using High-Resolution Diffusion Magnetic Resonance Imaging. Frontiers in Endocrinology, 2022, 13, .	3.5	4
5	Microcephaly with altered cortical layering in GIT1 deficiency revealed by quantitative neuroimaging. Magnetic Resonance Imaging, 2021, 76, 26-38.	1.8	4
6	Ex Vivo MR Histology and Cytometric Feature Mapping Connect Three-dimensional in Vivo MR Images to Two-dimensional Histopathologic Images of Murine Sarcomas. Radiology Imaging Cancer, 2021, 3, e200103.	1.6	5
7	Mapping the peripheral nervous system in the whole mouse via compressed sensing tractography. Journal of Neural Engineering, 2021, 18, 044002.	3.5	3
8	A high-resolution interactive atlas of the human brainstem using magnetic resonance imaging. NeuroImage, 2021, 237, 118135.	4.2	18
9	GLIS1 regulates trabecular meshwork function and intraocular pressure and is associated with glaucoma in humans. Nature Communications, 2021, 12, 4877.	12.8	20
10	A multicontrast MR atlas of the Wistar rat brain. NeuroImage, 2021, 242, 118470.	4.2	4
11	3D Exploration of the Brainstem in 50-Micron Resolution MRI. Frontiers in Neuroanatomy, 2020, 14, 40.	1.7	13
12	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. NeuroImage, 2020, 222, 117274.	4.2	33
13	Qualitative and Quantitative Neuropathology Approaches Using Magnetic Resonance Microscopy (Diffusion Tensor Imaging) and Stereology in a Hexachlorophene Model of Myelinopathy in Sprague-Dawley Rats. Toxicologic Pathology, 2020, 48, 965-980.	1.8	4
14	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. Frontiers in Physics, 2020, 8, .	2.1	14
15	TBR-760, a Dopamine-Somatostatin Compound, Arrests Growth of Aggressive Nonfunctioning Pituitary Adenomas in Mice. Endocrinology, 2020, 161, .	2.8	7
16	Characterization complex collagen fiber architecture in knee joint using highâ€resolution diffusion imaging. Magnetic Resonance in Medicine, 2020, 84, 908-919.	3.0	13
17	Cytoarchitecture of the mouse brain by high resolution diffusion magnetic resonance imaging. NeuroImage, 2020, 216, 116876.	4.2	29
18	Small Animal Multivariate Brain Analysis (SAMBA) â€“ a High Throughput Pipeline with a Validation Framework. Neuroinformatics, 2019, 17, 451-472.	2.8	42

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19	Diffusion tractography of the rat knee at microscopic resolution. Magnetic Resonance in Medicine, 2019, 81, 3775-3786.	3.0	21
20	Neurite orientation dispersion and density imaging of mouse brain microstructure. Brain Structure and Function, 2019, 224, 1797-1813.	2.3	51
21	Structural mapping with fiber tractography of the human cuneate fasciculus at microscopic resolution in cervical region. NeuroImage, 2019, 196, 200-206.	4.2	7
22	Identifying Vulnerable Brain Networks in Mouse Models of Genetic Risk Factors for Late Onset Alzheimerâ€™s Disease. Frontiers in Neuroinformatics, 2019, 13, 72.	2.5	24
23	Whole mouse brain connectomics. Journal of Comparative Neurology, 2019, 527, 2146-2157.	1.6	22
24	Dynamic contrast-enhanced MRI promotes early detection of toxin-induced acute kidney injury. American Journal of Physiology - Renal Physiology, 2019, 316, F351-F359.	2.7	17
25	Mapping the human subcortical auditory system using histology, postmortem MRI and in vivo MRI at 7T. ELife, 2019, 8, .	6.0	56
26	Diffusion tensor imaging using multiple coils for mouse brain connectomics. NMR in Biomedicine, 2018, 31, e3921.	2.8	3
27	Accelerating quantitative susceptibility imaging acquisition using compressed sensing. Physics in Medicine and Biology, 2018, 63, 245002.	3.0	16
28	Whole mouse brain structural connectomics using magnetic resonance histology. Brain Structure and Function, 2018, 223, 4323-4335.	2.3	60
29	Postmortem diffusion MRI of the entire human spinal cord at microscopic resolution. NeuroImage: Clinical, 2018, 18, 963-971.	2.7	27
30	Susceptibility tensor imaging and tractography of collagen fibrils in the articular cartilage. Magnetic Resonance in Medicine, 2017, 78, 1683-1690.	3.0	34
31	Adult rat cortical thickness changes across age and following adolescent intermittent ethanol treatment. Addiction Biology, 2017, 22, 712-723.	2.6	47
32	MRI tools for assessment of microstructure and nephron function of the kidney. American Journal of Physiology - Renal Physiology, 2016, 311, F1109-F1124.	2.7	27
33	Imaging whole-brain cytoarchitecture of mouse with MRI-based quantitative susceptibility mapping. NeuroImage, 2016, 137, 107-115.	4.2	43
34	Image-processing pipelines: applications in magnetic resonance histology. Proceedings of SPIE, 2016, , .	0.8	0
35	Dynamic contrast-enhanced quantitative susceptibility mapping with ultrashort echo time MRI for evaluating renal function. American Journal of Physiology - Renal Physiology, 2016, 310, F174-F182.	2.7	20
36	Tumor location, but not H3.3K27M, significantly influences the bloodâ€“brain-barrier permeability in a genetic mouse model of pediatric high-grade glioma. Journal of Neuro-Oncology, 2016, 126, 243-251.	2.9	49

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37	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. Magnetic Resonance in Medicine, 2015, 73, 1270-1281.	3.0	50
38	Magnetic resonance histology. Journal of Magnetic Resonance Imaging, 2015, 42, 1-2.	3.4	0
39	4D MRI of polycystic kidneys from rapamycinâ€treated Glis3â€deficient mice. NMR in Biomedicine, 2015, 28, 546-554.	2.8	8
40	Localization of Metal Electrodes in the Intact Rat Brain Using Registration of 3D Microcomputed Tomography Images to a Magnetic Resonance Histology Atlas. ENeuro, 2015, 2, ENEURO.0017-15.2015.	1.9	7
41	Postmortem diffusion MRI of the human brainstem and thalamus for deep brain stimulator electrode localization. Human Brain Mapping, 2015, 36, 3167-3178.	3.6	84
42	Addendum to â€œWaxholm Space atlas of the Sprague Dawley rat brainâ€•[NeuroImage 97 (2014) 374-386]. NeuroImage, 2015, 105, 561-562.	4.2	17
43	Dynamic contrastâ€enhanced MR microscopy identifies regions of therapeutic response in a preclinical model of colorectal adenocarcinoma. Medical Physics, 2015, 42, 2482-2488.	3.0	3
44	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. Cerebral Cortex, 2015, 25, 4628-4637.	2.9	193
45	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. NeuroImage, 2015, 117, 408-416.	4.2	169
46	Characterization of Subtle Brain Abnormalities in a Mouse Model of Hedgehog Pathway Antagonist-Induced Cleft Lip and Palate. PLoS ONE, 2014, 9, e102603.	2.5	23
47	Magnetic Resonance Imaging of Graded Skeletal Muscle Injury in Live Rats. Environmental Health Insights, 2014, 8s1, EHI.S15255.	1.7	5
48	Helical dual source cone-beam micro-CT. , 2014, , .		0
49	Four-dimensional MRI of renal function in the developing mouse. NMR in Biomedicine, 2014, 27, 1094-1102.	2.8	5
50	Diffusion Tensor Imaging Reveals White Matter Injury in a Rat Model of Repetitive Blast-Induced Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 938-950.	3.4	51
51	Anatomical and functional imaging of myocardial infarction in mice using microâ€CT and eXIA 160 contrast agent. Contrast Media and Molecular Imaging, 2014, 9, 161-168.	0.8	33
52	An analysis of the uncertainty and bias in DCEâ€MRI measurements using the spoiled gradientâ€recalled echo pulse sequence. Medical Physics, 2014, 41, 032301.	3.0	16
53	Waxholm Space atlas of the Sprague Dawley rat brain. NeuroImage, 2014, 97, 374-386.	4.2	321
54	Assessing Cardiac Injury in Mice With Dual Energy-MicroCT, 4D-MicroCT, and MicroSPECT Imaging After Partial Heart Irradiation. International Journal of Radiation Oncology Biology Physics, 2014, 88, 686-693.	0.8	43

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55	Semi-automated 3D segmentation of major tracts in the rat brain: comparing DTI with standard histological methods. Brain Structure and Function, 2014, 219, 539-550.	2.3	22
56	Quantitative magnetic susceptibility of the developing mouse brain reveals microstructural changes in the white matter. NeuroImage, 2014, 88, 134-142.	4.2	49
57	Prenatal alcohol exposure reduces magnetic susceptibility contrast and anisotropy in the white matter of mouse brains. NeuroImage, 2014, 102, 748-755.	4.2	32
58	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. NeuroToxicology, 2014, 42, 12-23.	3.0	22
59	Comparison of 4D-MicroSPECT and MicroCT for Murine Cardiac Function. Molecular Imaging and Biology, 2014, 16, 235-245.	2.6	15
60	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: Time well spent?. Human Brain Mapping, 2014, 35, 5667-5685.	3.6	36
61	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. Brain Structure and Function, 2013, 218, 767-778.	2.3	19
62	Magnetic resonance microscopy-based analyses of the neuroanatomical effects of gestational day 9 ethanol exposure in mice. Neurotoxicology and Teratology, 2013, 39, 77-83.	2.4	45
63	The Utility of Micro-CT and MRI in the Assessment of Longitudinal Growth of Liver Metastases in a Preclinical Model of Colon Carcinoma. Academic Radiology, 2013, 20, 430-439.	2.5	16
64	Diffusion tensor magnetic resonance histology reveals microstructural changes in the developing rat brain. NeuroImage, 2013, 79, 329-339.	4.2	22
65	An ontology-based segmentation scheme for tracking postnatal changes in the developing rodent brain with MRI. NeuroImage, 2013, 67, 375-384.	4.2	19
66	Dual-Energy Micro-Computed Tomography Imaging of Radiation-Induced Vascular Changes in Primary Mouse Sarcomas. International Journal of Radiation Oncology Biology Physics, 2013, 85, 1353-1359.	0.8	57
67	A quantitative magnetic resonance histology atlas of postnatal rat brain development with regional estimates of growth and variability. NeuroImage, 2013, 71, 196-206.	4.2	102
68	Dual-Energy Computed Tomography Imaging of Atherosclerotic Plaques in a Mouse Model Using a Liposomal-Iodine Nanoparticle Contrast Agent. Circulation: Cardiovascular Imaging, 2013, 6, 285-294.	2.6	59
69	Quantitative susceptibility mapping of kidney inflammation and fibrosis in type 1 angiotensin receptorâ€deficient mice. NMR in Biomedicine, 2013, 26, 1853-1863.	2.8	45
70	A comparison of radial keyhole strategies for high spatial and temporal resolution 4D contrast-enhanced MRI in small animal tumor models. Medical Physics, 2013, 40, 022304.	3.0	23
71	A LabVIEW Platform for Preclinical Imaging Using Digital Subtraction Angiography and Micro-CT. Journal of Medical Engineering, 2013, 2013, 1-13.	1.1	1
72	Denoising of 4D cardiac micro-CT data using median-centric bilateral filtration. , 2012, 8314, .		16

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73	Magnetic Resonance Histology of Age-Related Nephropathy in the Sprague Dawley Rat. Toxicologic Pathology, 2012, 40, 764-778.	1.8	33
74	Registration-based segmentation of murine 4D cardiac micro-CT data using symmetric normalization. Physics in Medicine and Biology, 2012, 57, 6125-6145.	3.0	14
75	4D micro-CT using fast prospective gating. Physics in Medicine and Biology, 2012, 57, 257-271.	3.0	25
76	Investigations on x-ray luminescence CT for small animal imaging. , 2012, 8313, 83130T.		8
77	Functional Neuroimaging Using Ultrasonic Blood-brain Barrier Disruption and Manganese-enhanced MRI. Journal of Visualized Experiments, 2012, , e4055.	0.3	4
78	A comparison of sampling strategies for dual energy micro-CT. , 2012, , .		7
79	3D fiber tractography with susceptibility tensor imaging. NeuroImage, 2012, 59, 1290-1298.	4.2	82
80	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. NeuroImage, 2012, 62, 1848-1856.	4.2	91
81	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. NeuroImage, 2012, 63, 1633-1645.	4.2	31
82	Temporal and spectral imaging with microâ€CT. Medical Physics, 2012, 39, 4943-4958.	3.0	19
83	Computed Tomography Imaging of Primary Lung Cancer in Mice Using a Liposomal-Iodinated Contrast Agent. PLoS ONE, 2012, 7, e34496.	2.5	60
84	Modern Trends in Imaging VII: Magnetic Resonance Microscopy. Analytical Cellular Pathology, 2012, 35, 205-227.	1.4	5
85	Morphological studies of the murine heart based on probabilistic and statistical atlases. Computerized Medical Imaging and Graphics, 2012, 36, 119-129.	5.8	4
86	Ethanol-Induced Face-Brain Dysmorphology Patterns Are Correlative and Exposure-Stage Dependent. PLoS ONE, 2012, 7, e43067.	2.5	122
87	High-field (9.4T) MRI of brain dysmyelination by quantitative mapping of magnetic susceptibility. NeuroImage, 2011, 56, 930-938.	4.2	199
88	Microscopic diffusion tensor atlas of the mouse brain. NeuroImage, 2011, 56, 1235-1243.	4.2	48
89	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. NeuroImage, 2011, 58, 975-983.	4.2	33
90	High-resolution reconstruction of fluorescent inclusions in mouse thorax using anatomically guided sampling and parallel Monte Carlo computing. Biomedical Optics Express, 2011, 2, 2449.	2.9	9

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91	Evaluation of Tumor Microenvironment in an Animal Model using a Nanoparticle Contrast Agent in Computed Tomography Imaging. Academic Radiology, 2011, 18, 20-30.	2.5	84
92	Micro-CT imaging assessment of dobutamine-induced cardiac stress in rats. Journal of Pharmacological and Toxicological Methods, 2011, 63, 24-29.	0.7	16
93	In vivo imaging of rat coronary arteries using bi-plane digital subtraction angiography. Journal of Pharmacological and Toxicological Methods, 2011, 64, 151-157.	0.7	3
94	Phenylephrine-modulated cardiopulmonary blood flow measured with use of X-ray digital subtraction angiography. Journal of Pharmacological and Toxicological Methods, 2011, 64, 180-186.	0.7	2
95	Reduction of artifacts in T₂â€weighted PROPELLER in highâ€field preclinical imaging. Magnetic Resonance in Medicine, 2011, 65, 538-543.	3.0	15
96	A symmetrical Waxholm canonical mouse brain for NeuroMaps. Journal of Neuroscience Methods, 2011, 195, 170-175.	2.5	23
97	Dual-energy micro-CT imaging for differentiation of iodine- and gold-based nanoparticles. Proceedings of SPIE, 2011, , .	0.8	25
98	4D micro-CT for cardiac and perfusion applications with view under sampling. Physics in Medicine and Biology, 2011, 56, 3351-3369.	3.0	37
99	Continuing Education Course #1. Toxicologic Pathology, 2011, 39, 267-272.	1.8	6
100	Continuing Education Course #3. Toxicologic Pathology, 2011, 39, 289-293.	1.8	17
101	Quantitative Neuromorphometry Using Magnetic Resonance Histology. Toxicologic Pathology, 2011, 39, 85-91.	1.8	13
102	Digital Atlasing and Standardization in the Mouse Brain. PLoS Computational Biology, 2011, 7, e1001065.	3.2	109
103	Lung perfusion imaging in small animals using 4D microâ€CT at heartbeat temporal resolution. Medical Physics, 2010, 37, 54-62.	3.0	29
104	Magnetic resonance microscopyâ€based analyses of the brains of normal and ethanolâ€exposed fetal mice. Birth Defects Research Part A: Clinical and Molecular Teratology, 2010, 88, 953-964.	1.6	56
105	Ventilation/perfusion imaging in a rat model of airway obstruction. Magnetic Resonance in Medicine, 2010, 63, 728-735.	3.0	6
106	Cardiovascular phenotyping of the mouse heart using a 4D radial acquisition and liposomal Gd-DTPA-BMA. Magnetic Resonance in Medicine, 2010, 63, 979-987.	3.0	16
107	Quantitative analysis of hyperpolarized 3 He ventilation changes in mice challenged with methacholine. Magnetic Resonance in Medicine, 2010, 63, 658-666.	3.0	15
108	Multishot PROPELLER for highâ€field preclinical MRI. Magnetic Resonance in Medicine, 2010, 64, 47-53.	3.0	11

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109	Contrastâ€enhanced in vivo magnetic resonance microscopy of the mouse brain enabled by noninvasive opening of the bloodâ€brain barrier with ultrasound. Magnetic Resonance in Medicine, 2010, 64, 995-1004.	3.0	46
110	Improving temporal resolution of pulmonary perfusion imaging in rats using the partially separable functions model. Magnetic Resonance in Medicine, 2010, 64, 1162-1170.	3.0	32
111	Magnetic Resonance Microscopy Defines Ethanolâ€Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 7. Alcoholism: Clinical and Experimental Research, 2010, 34, 98-111.	2.4	113
112	Static and dynamic cardiac modelling: Initial strides and results towards a quantitatively accurate mechanical heart model. , 2010, , .		4
113	Free-space fluorescence tomography with adaptive sampling based on anatomical information from microCT. Proceedings of SPIE, 2010, 7757, .	0.8	1
114	Ultrasonic disruption of the bloodâ€“brain barrier enables in vivo functional mapping of the mouse barrel field cortex with manganese-enhanced MRI. NeuroImage, 2010, 50, 1464-1471.	4.2	19
115	Waxholm Space: An image-based reference for coordinating mouse brain research. NeuroImage, 2010, 53, 365-372.	4.2	236
116	Microscopic diffusion tensor imaging of the mouse brain. NeuroImage, 2010, 50, 465-471.	4.2	62
117	Remote sites of structural atrophy predict later amyloid formation in a mouse model of Alzheimer's disease. NeuroImage, 2010, 50, 416-427.	4.2	42
118	Active Staining of Mouse Embryos for Magnetic Resonance Microscopy. Methods in Molecular Biology, 2010, 611, 141-149.	0.9	20
119	The INCF Digital Atlasing Program: Report on Digital Atlasing Standards in the Rodent Brain. Nature Precedings, 2009, , .	0.1	7
120	Development of a noncontact 3-D fluorescence tomography system for small animal in vivo imaging. Proceedings of SPIE, 2009, 7191, nihpa106691.	0.8	11
121	Three-dimensional reconstruction in free-space whole-body fluorescence tomography of mice using optically reconstructed surface and atlas anatomy. Journal of Biomedical Optics, 2009, 14, 064010.	2.6	36
122	Quantitative blood flow measurements in the small animal cardiopulmonary system using digital subtraction angiography. Medical Physics, 2009, 36, 5347-5358.	3.0	21
123	Least-Square NUFFT Methods Applied to 2-D and 3-D Radially Encoded MR Image Reconstruction. IEEE Transactions on Biomedical Engineering, 2009, 56, 1134-1142.	4.2	46
124	Rapid production of specialized animal handling devices using computerâ€aided design and solid freeform fabrication. Journal of Magnetic Resonance Imaging, 2009, 30, 466-471.	3.4	17
125	Highâ€resolution magnetic resonance angiography in the mouse using a nanoparticle bloodâ€pool contrast agent. Magnetic Resonance in Medicine, 2009, 62, 1447-1456.	3.0	36
126	Magnetic Resonance Microscopy Defines Ethanolâ€Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 8. Alcoholism: Clinical and Experimental Research, 2009, 33, 1001-1011.	2.4	127

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127	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. NeuroImage, 2009, 45, 1067-1079.	4.2	48
128	Purkinje cell loss in experimental autoimmune encephalomyelitis. NeuroImage, 2009, 48, 637-651.	4.2	62
129	Genetic dissection of the mouse CNS using magnetic resonance microscopy. Current Opinion in Neurology, 2009, 22, 379-386.	3.6	17
130	Pulmonary perfusion imaging in the rodent lung using dynamic contrastâ€enhanced MRI. Magnetic Resonance in Medicine, 2008, 59, 289-297.	3.0	25
131	Multispectral imaging with three-dimensional rosette trajectories. Magnetic Resonance in Medicine, 2008, 59, 581-589.	3.0	10
132	Fourâ€dimensional MR microscopy of the mouse heart using radial acquisition and liposomal gadolinium contrast agent. Magnetic Resonance in Medicine, 2008, 60, 111-118.	3.0	44
133	Design of a superconducting volume coil for magnetic resonance microscopy of the mouse brain. Journal of Magnetic Resonance, 2008, 191, 231-238.	2.1	24
134	Left ventricle volume measurements in cardiac micro-CT: The impact of radiation dose and contrast agent. Computerized Medical Imaging and Graphics, 2008, 32, 239-250.	5.8	26
135	A High-Precision Contrast Injector for Small Animal X-Ray Digital Subtraction Angiography. IEEE Transactions on Biomedical Engineering, 2008, 55, 1082-1091.	4.2	26
136	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. NeuroImage, 2008, 39, 136-145.	4.2	61
137	Application of MOSFET Detectors for Dosimetry in Small Animal Radiography Using Short Exposure Times. Radiation Research, 2008, 170, 260-263.	1.5	16
138	A dual micro-CT system for small animal imaging. Proceedings of SPIE, 2008, 6913, 691342.	0.8	51
139	Optical clearing of unsectioned specimens for three-dimensional imaging via optical transmission and emission tomography. Journal of Biomedical Optics, 2008, 13, 021113.	2.6	38
140	Intracardiac septation requires hedgehog-dependent cellular contributions from outside the heart. Development (Cambridge), 2008, 135, 1887-1895.	2.5	161
141	High-resolution magnetic resonance histology of the embryonic and neonatal mouse: A 4D atlas and morphologic database. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12331-12336.	7.1	108
142	A micro-CT analysis of murine lung recruitment in bleomycin-induced lung injury. Journal of Applied Physiology, 2008, 105, 669-677.	2.5	20
143	Geometric calibration for a dual tube/detector microâ€CT system. Medical Physics, 2008, 35, 1820-1829.	3.0	53
144	Superparamagnetic Iron Oxide Labeling and Transplantation of Adipose-Derived Stem Cells in Middle Cerebral Artery Occlusion-Injured Mice. American Journal of Roentgenology, 2007, 188, 1101-1108.	2.2	68

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145	High-resolution imaging of murine myocardial infarction with delayed-enhancement cine micro-CT. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H3172-H3178.	3.2	59
146	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. Medical Physics, 2007, 34, 1546-1555.	3.0	22
147	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac microâ€CT. Medical Physics, 2007, 34, 4476-4483.	3.0	152
148	Measurement and modeling of 4D live mouse heart volumes from CT time series. , 2007, , .		3
149	Neuroanatomical phenotypes in the Reeler mouse. NeuroImage, 2007, 34, 1363-1374.	4.2	60
150	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. NeuroImage, 2007, 37, 82-89.	4.2	115
151	A MICROâ€“COMPUTED TOMOGRAPHYâ€“BASED METHOD FOR THE MEASUREMENT OF PULMONARY COMPLIANCE IN HEALTHY AND BLEOMYCINâ€“EXPOSED MICE. Experimental Lung Research, 2007, 33, 169-183.	1.2	29
152	³He MRI in mouse models of asthma. Magnetic Resonance in Medicine, 2007, 58, 893-900.	3.0	57
153	Staining methods for magnetic resonance microscopy of the rat fetus. Journal of Magnetic Resonance Imaging, 2007, 25, 1192-1198.	3.4	43
154	Cardiac Microâ€“Computed Tomography for Morphological and Functional Phenotyping of Muscle LIM Protein Null Mice. Molecular Imaging, 2007, 6, 7290.2007.00022.	1.4	23
155	Cardiac micro-computed tomography for morphological and functional phenotyping of muscle LIM protein null mice. Molecular Imaging, 2007, 6, 261-8.	1.4	14
156	A Liposomal Nanoscale Contrast Agent for Preclinical CT in Mice. American Journal of Roentgenology, 2006, 186, 300-307.	2.2	226
157	Tumor imaging in small animals with a combined micro-CT/micro-DSA system using iodinated conventional and blood pool contrast agents. Contrast Media and Molecular Imaging, 2006, 1, 153-164.	0.8	47
158	EnhancedT2 contrast for MR histology of the mouse brain. Magnetic Resonance in Medicine, 2006, 56, 717-725.	3.0	38
159	Optimization of Multiplanar Reformations from Isotropic Data Sets Acquired with 16â€“Detector Row Helical CT Scanner. Radiology, 2006, 238, 292-299.	7.3	45
160	Imaging alveolar-capillary gas transfer using hyperpolarized 129Xe MRI. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18278-18283.	7.1	210
161	Imaging Methods for Morphological and Functional Phenotyping of the Rodent Heart. Toxicologic Pathology, 2006, 34, 111-117.	1.8	38
162	Three-dimensional imaging of xenograft tumors using optical computed and emission tomography. Medical Physics, 2006, 33, 3193-3202.	3.0	24

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163	Optimized radiographic spectra for small animal digital subtraction angiography. Medical Physics, 2006, 33, 4249-4257.	3.0	19
164	Magnetic Resonance Microscopy. The Electrical Engineering Handbook, 2006, , 15-1-15-14.	0.2	0
165	4-D Micro-CT of the Mouse Heart. Molecular Imaging, 2005, 4, 153535002005041.	1.4	139
166	Ventilation-synchronous magnetic resonance microscopy of pulmonary structure and ventilation in mice. Magnetic Resonance in Medicine, 2005, 53, 69-75.	3.0	37
167	Effects of breathing and cardiac motion on spatial resolution in the microscopic imaging of rodents. Magnetic Resonance in Medicine, 2005, 53, 858-865.	3.0	49
168	Morphology of the Small-Animal Lung Using Magnetic Resonance Microscopy. Proceedings of the American Thoracic Society, 2005, 2, 481-483.	3.5	7
169	Magnetic resonance imaging at microscopic resolution reveals subtle morphological changes in a mouse model of dopaminergic hyperfunction. NeuroImage, 2005, 26, 83-90.	4.2	49
170	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. NeuroImage, 2005, 27, 425-435.	4.2	86
171	4-D micro-CT of the mouse heart. Molecular Imaging, 2005, 4, 110-6.	1.4	61
172	Contribution of Magnetic Resonance Microscopy in the 12-Week Neurotoxicity Evaluation of Carbonyl Sulfide in Fischer 344 Rats. Toxicologic Pathology, 2004, 32, 501-510.	1.8	22
173	Applications of Magnetic Resonance Microscopy. Toxicologic Pathology, 2004, 32, 42-48.	1.8	41
174	Neurotoxicity of carbonyl sulfide in F344 rats following inhalation exposure for up to 12 weeks. Toxicology and Applied Pharmacology, 2004, 200, 131-145.	2.8	35
175	Cine magnetic resonance microscopy of the rat heart using cardiorespiratory-synchronous projection reconstruction. Journal of Magnetic Resonance Imaging, 2004, 20, 31-38.	3.4	28
176	Measurement of fat/water ratios in rat liver using 3D three-point dixon MRI. Magnetic Resonance in Medicine, 2004, 51, 697-702.	3.0	27
177	Dynamic lung morphology of methacholine-induced heterogeneous bronchoconstriction. Magnetic Resonance in Medicine, 2004, 52, 1080-1086.	3.0	28
178	Development of a 4-D digital mouse phantom for molecular imaging research. Molecular Imaging and Biology, 2004, 6, 149-159.	2.6	363
179	Myocardial volume and organization are changed by failure of addition of secondary heart field myocardium to the cardiac outflow tract. Developmental Dynamics, 2003, 228, 152-160.	1.8	45
180	Measurement of regional lung function in rats using hyperpolarized3helium dynamic MRI. Magnetic Resonance in Medicine, 2003, 49, 78-88.	3.0	52

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181	Improved preparation of chick embryonic samples for magnetic resonance microscopy. Magnetic Resonance in Medicine, 2003, 49, 1192-1195.	3.0	37
182	Optimization of Eight-Element Multiâ€“Detector Row Helical CT Technology for Evaluation of the Abdomen. Radiology, 2003, 227, 739-745.	7.3	73
183	Morphologic Phenotyping with MR Microscopy: The Visible Mouse. Radiology, 2002, 222, 789-793.	7.3	244
184	Mechanical Ventilation for Imaging the Small Animal Lung. ILAR Journal, 2002, 43, 159-174.	1.8	55
185	Imaging inflammation: Direct visualization of perivascular cuffing in EAE by magnetic resonance microscopy. Journal of Magnetic Resonance Imaging, 2002, 16, 28-36.	3.4	28
186	Magnetic resonance histology for morphologic phenotyping. Journal of Magnetic Resonance Imaging, 2002, 16, 423-429.	3.4	112
187	Fiber-optic stethoscope: A cardiac monitoring and gating system for magnetic resonance microscopy. Magnetic Resonance in Medicine, 2002, 47, 314-321.	3.0	60
188	MRI of the lungs using hyperpolarized noble gases. Magnetic Resonance in Medicine, 2002, 47, 1029-1051.	3.0	362
189	Registered1H and3He magnetic resonance microscopy of the lung. Magnetic Resonance in Medicine, 2001, 45, 365-370.	3.0	54
190	Measurements of hyperpolarized gas properties in the lung. part III:3HeT1. Magnetic Resonance in Medicine, 2001, 45, 421-430.	3.0	50
191	Diabetes Insipidus in Uricase-Deficient Mice: A Model for Evaluating Therapy with Poly(Ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	6.1	69
192	T1? imaging using magnetization-prepared projection encoding (MaPPE). Magnetic Resonance in Medicine, 2000, 43, 421-428.	3.0	13
193	Hyperpolarized3He microspheres as a novel vascular signal source for MRI. Magnetic Resonance in Medicine, 2000, 43, 440-445.	3.0	18
194	Mixing oxygen with hyperpolarized3He for small-animal lung studies. NMR in Biomedicine, 2000, 13, 202-206.	2.8	32
195	MR-compatible ventilator for small animals: computer-controlled ventilation for proton and noble gas imaging. Magnetic Resonance Imaging, 2000, 18, 753-759.	1.8	75
196	Abnormal water metabolism in mice lacking the type 1A receptor for ANG II. American Journal of Physiology - Renal Physiology, 2000, 278, F75-F82.	2.7	84
197	Virtual Neuropathology: Three-Dimensional Visualization of Lesions Due to Toxic Insult. Toxicologic Pathology, 2000, 28, 100-104.	1.8	21
198	Magnetic Resonance Microscopy of the C57BL Mouse Brain. NeuroImage, 2000, 11, 601-611.	4.2	90

#	Article	IF	Citations
199	Magnetic resonance imaging of embryos: an Internet resource for the study of embryonic development. Computerized Medical Imaging and Graphics, 1999, 23, 33-40.	5.8	45
200	Performance of a high-temperature superconducting probe for in vivo microscopy at 2.0 T. Magnetic Resonance in Medicine, 1999, 41, 72-79.	3.0	46
201	Functional MR microscopy of the lung using hyperpolarized3He. Magnetic Resonance in Medicine, 1999, 41, 787-792.	3.0	62
202	Sensitivity and resolution in 3D NMR microscopy of the lung with hyperpolarized noble gases. Magnetic Resonance in Medicine, 1999, 41, 800-808.	3.0	39
203	Magnetic resonance angiography with hyperpolarized129Xe dissolved in a lipid emulsion. Magnetic Resonance in Medicine, 1999, 41, 1058-1064.	3.0	54
204	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part I: Diffusion coefficient. Magnetic Resonance in Medicine, 1999, 42, 721-728.	3.0	170
205	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part II:T?2. Magnetic Resonance in Medicine, 1999, 42, 729-737.	3.0	81
206	3-Dimensional visualization of lesions in rat brain using magnetic resonance imaging microscopy. NeuroReport, 1999, 10, 737-741.	1.2	29
207	Magnetic Resonance Microscopy. The Electrical Engineering Handbook, 1999, , .	0.2	0
208	Signal Dynamics in Magnetic Resonance Imaging of the Lung with Hyperpolarized Noble Gases. Journal of Magnetic Resonance, 1998, 135, 133-143.	2.1	65
209	Magnetic resonance microscopy and histopathology: Comparative approach of bromobenzene-induced hepatotoxicity in the rat. Hepatology, 1998, 27, 526-532.	7.3	9
210	A fast spin echo technique with circular sampling. Magnetic Resonance in Medicine, 1998, 39, 23-27.	3.0	19
211	MR microscopy of lung airways with hyperpolarized3He. Magnetic Resonance in Medicine, 1998, 39, 79-84.	3.0	95
212	Time-course imaging of rat embryos in utero with magnetic resonance microscopy. Magnetic Resonance in Medicine, 1998, 39, 673-677.	3.0	32
213	Hyperpolarized3He NMR Lineshape Measurements in the Live Guinea Pig Lung. Magnetic Resonance in Medicine, 1998, 40, 61-65.	3.0	20
214	Magnetic Resonance Microscopy in Basic Studies of Brain Structure and Function^a, ^b. Annals of the New York Academy of Sciences, 1997, 820, 139-148.	3.8	32
215	Progression of a focal ischemic lesion in rat brain during treatment with a novel glycine/nmda antagonist: An in vivo three-dimensional diffusion-weighted MR microscopy study. Journal of Magnetic Resonance Imaging, 1997, 7, 739-744.	3.4	14
216	Dynamics of magnetization in hyperpolarized gas MRI of the lung. Magnetic Resonance in Medicine, 1997, 38, 66-71.	3.0	63

#	Article	IF	Citations
217	MR microimaging of the lung using volume projection encoding. Magnetic Resonance in Medicine, 1997, 38, 938-942.	3.0	44
218	A Newin VivoMethod for Quantitative Analysis of Stroke Lesions Using Diffusion-Weighted Magnetic Resonance Microscopy. NeuroImage, 1996, 3, 158-166.	4.2	7
219	T1Ï•relaxation and its application to MR histology. Magnetic Resonance in Medicine, 1996, 35, 781-786.	3.0	30
220	Magnetic resonance microscopy of embryos. Computerized Medical Imaging and Graphics, 1996, 20, 483-490.	5.8	72
221	Functional imaging of the lung. Nature Medicine, 1996, 2, 1192-1192.	30.7	9
222	Magnetic Resonance Microscopy-A New Tool for the Toxicologic Pathologist. Toxicologic Pathology, 1996, 24, 36-44.	1.8	28
223	MR Microscopy of the Rat Carotid Artery after Balloon Injury by Using an Implanted Imaging Coil. Magnetic Resonance in Medicine, 1995, 33, 785-789.	3.0	37
224	Detection of bromobenzene-induced hepatocellular necrosis using magnetic resonance microscopy. Magnetic Resonance in Medicine, 1995, 34, 853-857.	3.0	6
225	Studies on bromobenzene-induced hepatotoxicity usingin vivo MR microscopy with surgically implanted RF coils. Magnetic Resonance in Medicine, 1994, 31, 619-627.	3.0	22
226	Three dimensional magnetic resonance microangiography of rat neurovasculature. Magnetic Resonance in Medicine, 1994, 32, 199-205.	3.0	26
227	Magnetic Resonance Microscopy of the Rat Carotid Artery at 300 Megahertz. Investigative Radiology, 1994, 29, 822-826.	6.2	11
228	High-Field MR microscopy using fast spin-echoes. Magnetic Resonance in Medicine, 1993, 30, 60-67.	3.0	37
229	Diffusionâ€weighted MR microscopy with fast spinâ€echo. Magnetic Resonance in Medicine, 1993, 30, 201-206.	3.0	49
230	Reduction of ringing and blurring artifacts in fast spin-echo imaging. Journal of Magnetic Resonance Imaging, 1993, 3, 803-807.	3.4	49
231	Magnetic resonance imaging of leaves. New Phytologist, 1993, 123, 769-774.	7.3	43
232	A Probe for Specimen Magnetic Resonance Microscopy. Investigative Radiology, 1992, 27, 157-164.	6.2	27
233	Surface coil imaging of rat spine at 7.0 T. Magnetic Resonance Imaging, 1992, 10, 929-934.	1.8	16
234	MR microscopy of chick embryo vasculature. Journal of Magnetic Resonance Imaging, 1992, 2, 237-240.	3.4	34

#	Article	IF	Citations
235	In vivo magnetic resonance imaging of the blue crab,Callinectes sapidus: Effect of cadmium accumulation in tissues on proton relaxation properties. The Journal of Experimental Zoology, 1992, 263, 32-40.	1.4	15
236	IN VIVO MAGNETIC RESONANCE IMAGING OF BLECHNUM FERNS: CHANGES IN T1 AND N(H) DURING DEHYDRATION AND REHYDRATION. American Journal of Botany, 1991, 78, 80-88.	1.7	7
237	DISTINGUISHING PLANT TISSUES WITH MAGNETIC RESONANCE MICROSCOPY. American Journal of Botany, 1991, 78, 1704-1711.	1.7	37
238	The use of gradient flow compensation to separate diffusion and microcirculatory flow in MRI. Magnetic Resonance in Medicine, 1991, 17, 95-107.	3.0	63
239	Maximization of contrast-to-noise ratio to distinguish diffusion and microcirculatory flow. Journal of Magnetic Resonance Imaging, 1991, 1, 39-46.	3.4	5
240	MR microscopy at 7.0 T: Effects of brain iron. Journal of Magnetic Resonance Imaging, 1991, 1, 301-305.	3.4	16
241	MR imaging of microcirculation in rat brain: Correlation with carbon dioxide-induced changes in blood flow. Journal of Magnetic Resonance Imaging, 1991, 1, 673-681.	3.4	0
242	Magnetic Resonance Microscopy of Toxic Renal Injury Induced by Bromoethylamine in Rats. Toxicological Sciences, 1991, 16, 787-797.	3.1	0
243	Distinguishing Plant Tissues with Magnetic Resonance Microscopy. American Journal of Botany, 1991, 78, 1704.	1.7	15
244	In vivo Magnetic Resonance Imaging of Blechnum Ferns: Changes in T1 and N (H) During Dehydration and Rehydration. American Journal of Botany, 1991, 78, 80.	1.7	15
245	Magnetic Resonance Microscopy of Chemically-Induced Liver Foci. Toxicologic Pathology, 1989, 17, 613-616.	1.8	11
246	Pattern formation in flowing sand. Physical Review Letters, 1989, 62, 2825-2828.	7.8	215
247	Image optimization in a computed-radiography/photostimulable-phosphor system. Journal of Digital Imaging, 1989, 2, 212-219.	2.9	13
248	Magnetic Resonance Imaging (MRI): A New Tool in Experimental Toxicologic Pathology. Toxicologic Pathology, 1988, 16, 386-389.	1.8	14
249	Implementation Of Adaptive Filtration For Digital Chest Imaging. Optical Engineering, 1987, 26, 267669.	1.0	9
250	In Situ Magnetic Resonance Microscopy. Investigative Radiology, 1987, 22, 965-968.	6.2	37
251	Three-dimensional MRI microscopy of the normal rat brain. Magnetic Resonance in Medicine, 1987, 4, 351-365.	3.0	52
252	Magnetic resonance imaging in multiple sclerosis: Decreased signal in thalamus and putamen. Annals of Neurology, 1987, 22, 546-550.	5.3	50

#	Article	IF	Citations
253	Rapid calculation of T1 using variable flip angle gradient refocused imaging. Magnetic Resonance Imaging, 1987, 5, 201-208.	1.8	318
254	Methodology for the measurement and analysis of relaxation times in proton imaging. Magnetic Resonance Imaging, 1987, 5, 209-220.	1.8	94
255	MR â€œMicroscopyâ€•of the Rat Thorax. Journal of Computer Assisted Tomography, 1986, 10, 948-952.	0.9	13
256	Magnetic Resonance Microscopy of the Rat Thorax and Abdomen. Investigative Radiology, 1986, 21, 843-846.	6.2	33
257	Digital Synthesis of Lung Nodules. Investigative Radiology, 1985, 20, 933-937.	6.2	11
258	Time course and mechanism of alterations in proton relaxation during liver regeneration in the rat. Hepatology, 1985, 5, 538-543.	7.3	6
259	Transition metal-chelate complexes as relaxation modifiers in nuclear magnetic resonance. Medical Physics, 1984, 11, 67-72.	3.0	13
260	Simulation of mammographic x-ray spectra. Medical Physics, 1980, 7, 189-195.	3.0	4
261	An Experimental â€œTrans-Molybdenumâ€•Tube for Mammography. Radiology, 1978, 127, 511-516.	7.3	12