

# G Allan Johnson

## List of Publications by Year in descending order

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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	Development of a 4-D digital mouse phantom for molecular imaging research. <i>Molecular Imaging and Biology</i> , 2004, 6, 149-159.	2.6	363
2	MRI of the lungs using hyperpolarized noble gases. <i>Magnetic Resonance in Medicine</i> , 2002, 47, 1029-1051.	3.0	362
3	Waxholm Space atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2014, 97, 374-386.	4.2	321
4	Rapid calculation of T1 using variable flip angle gradient refocused imaging. <i>Magnetic Resonance Imaging</i> , 1987, 5, 201-208.	1.8	318
5	Morphologic Phenotyping with MR Microscopy: The Visible Mouse. <i>Radiology</i> , 2002, 222, 789-793.	7.3	244
6	Waxholm Space: An image-based reference for coordinating mouse brain research. <i>NeuroImage</i> , 2010, 53, 365-372.	4.2	236
7	A Liposomal Nanoscale Contrast Agent for Preclinical CT in Mice. <i>American Journal of Roentgenology</i> , 2006, 186, 300-307.	2.2	226
8	Pattern formation in flowing sand. <i>Physical Review Letters</i> , 1989, 62, 2825-2828.	7.8	215
9	Imaging alveolar-capillary gas transfer using hyperpolarized <sup>129</sup> Xe MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18278-18283.	7.1	210
10	High-field (9.4T) MRI of brain dysmyelination by quantitative mapping of magnetic susceptibility. <i>NeuroImage</i> , 2011, 56, 930-938.	4.2	199
11	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. <i>Cerebral Cortex</i> , 2015, 25, 4628-4637.	2.9	193
12	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part I: Diffusion coefficient. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 721-728.	3.0	170
13	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. <i>NeuroImage</i> , 2015, 117, 408-416.	4.2	169
14	Intracardiac septation requires hedgehog-dependent cellular contributions from outside the heart. <i>Development (Cambridge)</i> , 2008, 135, 1887-1895.	2.5	161
15	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac micro-CT. <i>Medical Physics</i> , 2007, 34, 4476-4483.	3.0	152
16	4-D Micro-CT of the Mouse Heart. <i>Molecular Imaging</i> , 2005, 4, 153535002005041.	1.4	139
17	Magnetic Resonance Microscopy Defines Ethanol-Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 8. <i>Alcoholism: Clinical and Experimental Research</i> , 2009, 33, 1001-1011.	2.4	127
18	Ethanol-Induced Face-Brain Dysmorphology Patterns Are Correlative and Exposure-Stage Dependent. <i>PLoS ONE</i> , 2012, 7, e43067.	2.5	122

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19	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. <i>NeuroImage</i> , 2007, 37, 82-89.	4.2	115
20	Magnetic Resonance Microscopy Defines Ethanol-Induced Brain Abnormalities in Prenatal Mice: Effects of Acute Insult on Gestational Day 7. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 98-111.	2.4	113
21	Magnetic resonance histology for morphologic phenotyping. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 423-429.	3.4	112
22	Digital Atlasing and Standardization in the Mouse Brain. <i>PLoS Computational Biology</i> , 2011, 7, e1001065.	3.2	109
23	High-resolution magnetic resonance histology of the embryonic and neonatal mouse: A 4D atlas and morphologic database. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12331-12336.	7.1	108
24	A quantitative magnetic resonance histology atlas of postnatal rat brain development with regional estimates of growth and variability. <i>NeuroImage</i> , 2013, 71, 196-206.	4.2	102
25	MR microscopy of lung airways with hyperpolarized <sup>3</sup> He. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 79-84.	3.0	95
26	Methodology for the measurement and analysis of relaxation times in proton imaging. <i>Magnetic Resonance Imaging</i> , 1987, 5, 209-220.	1.8	94
27	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. <i>NeuroImage</i> , 2012, 62, 1848-1856.	4.2	91
28	Magnetic Resonance Microscopy of the C57BL Mouse Brain. <i>NeuroImage</i> , 2000, 11, 601-611.	4.2	90
29	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. <i>NeuroImage</i> , 2005, 27, 425-435.	4.2	86
30	Abnormal water metabolism in mice lacking the type 1A receptor for ANG II. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 278, F75-F82.	2.7	84
31	Evaluation of Tumor Microenvironment in an Animal Model using a Nanoparticle Contrast Agent in Computed Tomography Imaging. <i>Academic Radiology</i> , 2011, 18, 20-30.	2.5	84
32	Postmortem diffusion MRI of the human brainstem and thalamus for deep brain stimulator electrode localization. <i>Human Brain Mapping</i> , 2015, 36, 3167-3178.	3.6	84
33	3D fiber tractography with susceptibility tensor imaging. <i>NeuroImage</i> , 2012, 59, 1290-1298.	4.2	82
34	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part II:T2. <i>Magnetic Resonance in Medicine</i> , 1999, 42, 729-737.	3.0	81
35	MR-compatible ventilator for small animals: computer-controlled ventilation for proton and noble gas imaging. <i>Magnetic Resonance Imaging</i> , 2000, 18, 753-759.	1.8	75
36	Optimization of Eight-Element Multi-Detector Row Helical CT Technology for Evaluation of the Abdomen. <i>Radiology</i> , 2003, 227, 739-745.	7.3	73

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37	Magnetic resonance microscopy of embryos. Computerized Medical Imaging and Graphics, 1996, 20, 483-490.	5.8	72
38	Diabetes Insipidus in Uricase-Deficient Mice: A Model for Evaluating Therapy with Poly(Ethylene Terephthalate) Nanoparticles. Journal of Biomedical Materials Research Part B: Applied Biomaterials, 2007, 81B, 1075-1082.	6.1	69
39	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
40	Signal Dynamics in Magnetic Resonance Imaging of the Lung with Hyperpolarized Noble Gases. Journal of Magnetic Resonance, 1998, 135, 133-143.	2.1	65
41	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
42	Dynamics of magnetization in hyperpolarized gas MRI of the lung. Magnetic Resonance in Medicine, 1997, 38, 66-71.	3.0	63
43	Functional MR microscopy of the lung using hyperpolarized <sup>3</sup> He. Magnetic Resonance in Medicine, 1999, 41, 787-792.	3.0	62
44	Purkinje cell loss in experimental autoimmune encephalomyelitis. NeuroImage, 2009, 48, 637-651.	4.2	62
45	Microscopic diffusion tensor imaging of the mouse brain. NeuroImage, 2010, 50, 465-471.	4.2	62
46	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. NeuroImage, 2008, 39, 136-145.	4.2	61
47	4-D micro-CT of the mouse heart. Molecular Imaging, 2005, 4, 110-6.	1.4	61
48	Fiber-optic stethoscope: A cardiac monitoring and gating system for magnetic resonance microscopy. Magnetic Resonance in Medicine, 2002, 47, 314-321.	3.0	60
49	Neuroanatomical phenotypes in the Reeler mouse. NeuroImage, 2007, 34, 1363-1374.	4.2	60
50	Computed Tomography Imaging of Primary Lung Cancer in Mice Using a Liposomal-Iodinated Contrast Agent. PLoS ONE, 2012, 7, e34496.	2.5	60
51	Whole mouse brain structural connectomics using magnetic resonance histology. Brain Structure and Function, 2018, 223, 4323-4335.	2.3	60
52	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
53	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
54	<sup>3</sup> He MRI in mouse models of asthma. Magnetic Resonance in Medicine, 2007, 58, 893-900.	3.0	57

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55	Dual-Energy Micro-Computed Tomography Imaging of Radiation-Induced Vascular Changes in Primary Mouse Sarcomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 1353-1359.	0.8	57
56	Magnetic resonance microscopy-based analyses of the brains of normal and ethanol-exposed fetal mice. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2010, 88, 953-964.	1.6	56
57	Mapping the human subcortical auditory system using histology, postmortem MRI and in vivo MRI at 7T. <i>ELife</i> , 2019, 8, .	6.0	56
58	Mechanical Ventilation for Imaging the Small Animal Lung. <i>ILAR Journal</i> , 2002, 43, 159-174.	1.8	55
59	Magnetic resonance angiography with hyperpolarized $^{129}\text{Xe}$ dissolved in a lipid emulsion. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 1058-1064.	3.0	54
60	Registered $^1\text{H}$ and $^3\text{He}$ magnetic resonance microscopy of the lung. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 365-370.	3.0	54
61	Geometric calibration for a dual tube/detector micro-CT system. <i>Medical Physics</i> , 2008, 35, 1820-1829.	3.0	53
62	Three-dimensional MRI microscopy of the normal rat brain. <i>Magnetic Resonance in Medicine</i> , 1987, 4, 351-365.	3.0	52
63	Measurement of regional lung function in rats using hyperpolarized $^3\text{He}$ dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 78-88.	3.0	52
64	A dual micro-CT system for small animal imaging. <i>Proceedings of SPIE</i> , 2008, 6913, 691342.	0.8	51
65	Diffusion Tensor Imaging Reveals White Matter Injury in a Rat Model of Repetitive Blast-Induced Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2014, 31, 938-950.	3.4	51
66	Neurite orientation dispersion and density imaging of mouse brain microstructure. <i>Brain Structure and Function</i> , 2019, 224, 1797-1813.	2.3	51
67	Magnetic resonance imaging in multiple sclerosis: Decreased signal in thalamus and putamen. <i>Annals of Neurology</i> , 1987, 22, 546-550.	5.3	50
68	Measurements of hyperpolarized gas properties in the lung. part III: $^3\text{HeT1}$ . <i>Magnetic Resonance in Medicine</i> , 2001, 45, 421-430.	3.0	50
69	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1270-1281.	3.0	50
70	Diffusion-weighted MR microscopy with fast spin-echo. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 201-206.	3.0	49
71	Reduction of ringing and blurring artifacts in fast spin-echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 803-807.	3.4	49
72	Effects of breathing and cardiac motion on spatial resolution in the microscopic imaging of rodents. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 858-865.	3.0	49

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73	Magnetic resonance imaging at microscopic resolution reveals subtle morphological changes in a mouse model of dopaminergic hyperfunction. <i>NeuroImage</i> , 2005, 26, 83-90.	4.2	49
74	Quantitative magnetic susceptibility of the developing mouse brain reveals microstructural changes in the white matter. <i>NeuroImage</i> , 2014, 88, 134-142.	4.2	49
75	Tumor location, but not H3.K27M, significantly influences the blood-brain-barrier permeability in a genetic mouse model of pediatric high-grade glioma. <i>Journal of Neuro-Oncology</i> , 2016, 126, 243-251.	2.9	49
76	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. <i>NeuroImage</i> , 2009, 45, 1067-1079.	4.2	48
77	Microscopic diffusion tensor atlas of the mouse brain. <i>NeuroImage</i> , 2011, 56, 1235-1243.	4.2	48
78	Tumor imaging in small animals with a combined micro-CT/micro-DSA system using iodinated conventional and blood pool contrast agents. <i>Contrast Media and Molecular Imaging</i> , 2006, 1, 153-164.	0.8	47
79	Adult rat cortical thickness changes across age and following adolescent intermittent ethanol treatment. <i>Addiction Biology</i> , 2017, 22, 712-723.	2.6	47
80	Performance of a high-temperature superconducting probe for in vivo microscopy at 2.0 T. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 72-79.	3.0	46
81	Least-Square NUFFT Methods Applied to 2-D and 3-D Radially Encoded MR Image Reconstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 1134-1142.	4.2	46
82	Contrast-enhanced in vivo magnetic resonance microscopy of the mouse brain enabled by noninvasive opening of the blood-brain barrier with ultrasound. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 995-1004.	3.0	46
83	Magnetic resonance imaging of embryos: an Internet resource for the study of embryonic development. <i>Computerized Medical Imaging and Graphics</i> , 1999, 23, 33-40.	5.8	45
84	Myocardial volume and organization are changed by failure of addition of secondary heart field myocardium to the cardiac outflow tract. <i>Developmental Dynamics</i> , 2003, 228, 152-160.	1.8	45
85	Optimization of Multiplanar Reformations from Isotropic Data Sets Acquired with 16-Detector Row Helical CT Scanner. <i>Radiology</i> , 2006, 238, 292-299.	7.3	45
86	Magnetic resonance microscopy-based analyses of the neuroanatomical effects of gestational day 9 ethanol exposure in mice. <i>Neurotoxicology and Teratology</i> , 2013, 39, 77-83.	2.4	45
87	Quantitative susceptibility mapping of kidney inflammation and fibrosis in type 1 angiotensin receptor-deficient mice. <i>NMR in Biomedicine</i> , 2013, 26, 1853-1863.	2.8	45
88	MR microimaging of the lung using volume projection encoding. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 938-942.	3.0	44
89	Four-dimensional MR microscopy of the mouse heart using radial acquisition and liposomal gadolinium contrast agent. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 111-118.	3.0	44
90	Magnetic resonance imaging of leaves. <i>New Phytologist</i> , 1993, 123, 769-774.	7.3	43

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91	Staining methods for magnetic resonance microscopy of the rat fetus. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 25, 1192-1198.	3.4	43
92	Assessing Cardiac Injury in Mice With Dual Energy-MicroCT, 4D-MicroCT, and MicroSPECT Imaging After Partial Heart Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 686-693.	0.8	43
93	Imaging whole-brain cytoarchitecture of mouse with MRI-based quantitative susceptibility mapping. <i>NeuroImage</i> , 2016, 137, 107-115.	4.2	43
94	Remote sites of structural atrophy predict later amyloid formation in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2010, 50, 416-427.	4.2	42
95	Small Animal Multivariate Brain Analysis (SAMBA) – a High Throughput Pipeline with a Validation Framework. <i>Neuroinformatics</i> , 2019, 17, 451-472.	2.8	42
96	Applications of Magnetic Resonance Microscopy. <i>Toxicologic Pathology</i> , 2004, 32, 42-48.	1.8	41
97	Sensitivity and resolution in 3D NMR microscopy of the lung with hyperpolarized noble gases. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 800-808.	3.0	39
98	Enhanced T2 contrast for MR histology of the mouse brain. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 717-725.	3.0	38
99	Imaging Methods for Morphological and Functional Phenotyping of the Rodent Heart. <i>Toxicologic Pathology</i> , 2006, 34, 111-117.	1.8	38
100	Optical clearing of unsectioned specimens for three-dimensional imaging via optical transmission and emission tomography. <i>Journal of Biomedical Optics</i> , 2008, 13, 021113.	2.6	38
101	In Situ Magnetic Resonance Microscopy. <i>Investigative Radiology</i> , 1987, 22, 965-968.	6.2	37
102	DISTINGUISHING PLANT TISSUES WITH MAGNETIC RESONANCE MICROSCOPY. <i>American Journal of Botany</i> , 1991, 78, 1704-1711.	1.7	37
103	High-Field MR microscopy using fast spin-echoes. <i>Magnetic Resonance in Medicine</i> , 1993, 30, 60-67.	3.0	37
104	MR Microscopy of the Rat Carotid Artery after Balloon Injury by Using an Implanted Imaging Coil. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 785-789.	3.0	37
105	Improved preparation of chick embryonic samples for magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 1192-1195.	3.0	37
106	Ventilation-synchronous magnetic resonance microscopy of pulmonary structure and ventilation in mice. <i>Magnetic Resonance in Medicine</i> , 2005, 53, 69-75.	3.0	37
107	4D micro-CT for cardiac and perfusion applications with view under sampling. <i>Physics in Medicine and Biology</i> , 2011, 56, 3351-3369.	3.0	37
108	Three-dimensional reconstruction in free-space whole-body fluorescence tomography of mice using optically reconstructed surface and atlas anatomy. <i>Journal of Biomedical Optics</i> , 2009, 14, 064010.	2.6	36

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109	High-resolution magnetic resonance angiography in the mouse using a nanoparticle blood-pool contrast agent. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 1447-1456.	3.0	36
110	Investigating the tradeoffs between spatial resolution and diffusion sampling for brain mapping with diffusion tractography: Time well spent?. <i>Human Brain Mapping</i> , 2014, 35, 5667-5685.	3.6	36
111	Neurotoxicity of carbonyl sulfide in F344 rats following inhalation exposure for up to 12 weeks. <i>Toxicology and Applied Pharmacology</i> , 2004, 200, 131-145.	2.8	35
112	MR microscopy of chick embryo vasculature. <i>Journal of Magnetic Resonance Imaging</i> , 1992, 2, 237-240.	3.4	34
113	Susceptibility tensor imaging and tractography of collagen fibrils in the articular cartilage. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1683-1690.	3.0	34
114	Magnetic Resonance Microscopy of the Rat Thorax and Abdomen. <i>Investigative Radiology</i> , 1986, 21, 843-846.	6.2	33
115	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011, 58, 975-983.	4.2	33
116	Magnetic Resonance Histology of Age-Related Nephropathy in the Sprague Dawley Rat. <i>Toxicologic Pathology</i> , 2012, 40, 764-778.	1.8	33
117	Anatomical and functional imaging of myocardial infarction in mice using micro-CT and eXIA 160 contrast agent. <i>Contrast Media and Molecular Imaging</i> , 2014, 9, 161-168.	0.8	33
118	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. <i>NeuroImage</i> , 2020, 222, 117274.	4.2	33
119	Magnetic Resonance Microscopy in Basic Studies of Brain Structure and Function, <sup>i>a</i></sup>, <sup>i>b</i></sup>. <i>Annals of the New York Academy of Sciences</i> , 1997, 820, 139-148.	3.8	32
120	Time-course imaging of rat embryos in utero with magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 673-677.	3.0	32
121	Mixing oxygen with hyperpolarized <sup>3</sup> He for small-animal lung studies. <i>NMR in Biomedicine</i> , 2000, 13, 202-206.	2.8	32
122	Improving temporal resolution of pulmonary perfusion imaging in rats using the partially separable functions model. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1162-1170.	3.0	32
123	Prenatal alcohol exposure reduces magnetic susceptibility contrast and anisotropy in the white matter of mouse brains. <i>NeuroImage</i> , 2014, 102, 748-755.	4.2	32
124	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. <i>NeuroImage</i> , 2012, 63, 1633-1645.	4.2	31
125	T1 $\rho$ -relaxation and its application to MR histology. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 781-786.	3.0	30
126	3-Dimensional visualization of lesions in rat brain using magnetic resonance imaging microscopy. <i>NeuroReport</i> , 1999, 10, 737-741.	1.2	29



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127	A MICROâ€“COMPUTED TOMOGRAPHYâ€“BASED METHOD FOR THE MEASUREMENT OF PULMONARY COMPLIANCE IN HEALTHY AND BLEOMYCINâ€“EXPOSED MICE. <i>Experimental Lung Research</i> , 2007, 33, 169-183.	1.2	29
128	Lung perfusion imaging in small animals using 4D microâ€“CT at heartbeat temporal resolution. <i>Medical Physics</i> , 2010, 37, 54-62.	3.0	29
129	Cytoarchitecture of the mouse brain by high resolution diffusion magnetic resonance imaging. <i>NeuroImage</i> , 2020, 216, 116876.	4.2	29
130	Magnetic Resonance Microscopy-A New Tool for the Toxicologic Pathologist. <i>Toxicologic Pathology</i> , 1996, 24, 36-44.	1.8	28
131	Imaging inflammation: Direct visualization of perivascular cuffing in EAE by magnetic resonance microscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 16, 28-36.	3.4	28
132	Cine magnetic resonance microscopy of the rat heart using cardiorespiratory-synchronous projection reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 20, 31-38.	3.4	28
133	Dynamic lung morphology of methacholine-induced heterogeneous bronchoconstriction. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1080-1086.	3.0	28
134	A Probe for Specimen Magnetic Resonance Microscopy. <i>Investigative Radiology</i> , 1992, 27, 157-164.	6.2	27
135	Measurement of fat/water ratios in rat liver using 3D three-point dixon MRI. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 697-702.	3.0	27
136	MRI tools for assessment of microstructure and nephron function of the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F1109-F1124.	2.7	27
137	Postmortem diffusion MRI of the entire human spinal cord at microscopic resolution. <i>NeuroImage: Clinical</i> , 2018, 18, 963-971.	2.7	27
138	Three dimensional magnetic resonance microangiography of rat neurovasculature. <i>Magnetic Resonance in Medicine</i> , 1994, 32, 199-205.	3.0	26
139	Left ventricle volume measurements in cardiac micro-CT: The impact of radiation dose and contrast agent. <i>Computerized Medical Imaging and Graphics</i> , 2008, 32, 239-250.	5.8	26
140	A High-Precision Contrast Injector for Small Animal X-Ray Digital Subtraction Angiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1082-1091.	4.2	26
141	Pulmonary perfusion imaging in the rodent lung using dynamic contrastâ€“enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 289-297.	3.0	25
142	Dual-energy micro-CT imaging for differentiation of iodine- and gold-based nanoparticles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	25
143	4D micro-CT using fast prospective gating. <i>Physics in Medicine and Biology</i> , 2012, 57, 257-271.	3.0	25
144	Three-dimensional imaging of xenograft tumors using optical computed and emission tomography. <i>Medical Physics</i> , 2006, 33, 3193-3202.	3.0	24

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145	Design of a superconducting volume coil for magnetic resonance microscopy of the mouse brain. <i>Journal of Magnetic Resonance</i> , 2008, 191, 231-238.	2.1	24
146	Identifying Vulnerable Brain Networks in Mouse Models of Genetic Risk Factors for Late Onset Alzheimer's Disease. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 72.	2.5	24
147	A symmetrical Waxholm canonical mouse brain for NeuroMaps. <i>Journal of Neuroscience Methods</i> , 2011, 195, 170-175.	2.5	23
148	A comparison of radial keyhole strategies for high spatial and temporal resolution 4D contrast-enhanced MRI in small animal tumor models. <i>Medical Physics</i> , 2013, 40, 022304.	3.0	23
149	Characterization of Subtle Brain Abnormalities in a Mouse Model of Hedgehog Pathway Antagonist-Induced Cleft Lip and Palate. <i>PLoS ONE</i> , 2014, 9, e102603.	2.5	23
150	Cardiac Micro-Computed Tomography for Morphological and Functional Phenotyping of Muscle LIM Protein Null Mice. <i>Molecular Imaging</i> , 2007, 6, 7290.2007.00022.	1.4	23
151	Studies on bromobenzene-induced hepatotoxicity using <i>in vivo</i> MR microscopy with surgically implanted RF coils. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 619-627.	3.0	22
152	Contribution of Magnetic Resonance Microscopy in the 12-Week Neurotoxicity Evaluation of Carbonyl Sulfide in Fischer 344 Rats. <i>Toxicologic Pathology</i> , 2004, 32, 501-510.	1.8	22
153	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. <i>Medical Physics</i> , 2007, 34, 1546-1555.	3.0	22
154	Diffusion tensor magnetic resonance histology reveals microstructural changes in the developing rat brain. <i>NeuroImage</i> , 2013, 79, 329-339.	4.2	22
155	Semi-automated 3D segmentation of major tracts in the rat brain: comparing DTI with standard histological methods. <i>Brain Structure and Function</i> , 2014, 219, 539-550.	2.3	22
156	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. <i>NeuroToxicology</i> , 2014, 42, 12-23.	3.0	22
157	Whole mouse brain connectomics. <i>Journal of Comparative Neurology</i> , 2019, 527, 2146-2157.	1.6	22
158	Virtual Neuropathology: Three-Dimensional Visualization of Lesions Due to Toxic Insult. <i>Toxicologic Pathology</i> , 2000, 28, 100-104.	1.8	21
159	Quantitative blood flow measurements in the small animal cardiopulmonary system using digital subtraction angiography. <i>Medical Physics</i> , 2009, 36, 5347-5358.	3.0	21
160	Diffusion tractography of the rat knee at microscopic resolution. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3775-3786.	3.0	21
161	Hyperpolarized <sup>3</sup> He NMR Lineshape Measurements in the Live Guinea Pig Lung. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 61-65.	3.0	20
162	A micro-CT analysis of murine lung recruitment in bleomycin-induced lung injury. <i>Journal of Applied Physiology</i> , 2008, 105, 669-677.	2.5	20

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163	Dynamic contrast-enhanced quantitative susceptibility mapping with ultrashort echo time MRI for evaluating renal function. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F174-F182.	2.7	20
164	GLIS1 regulates trabecular meshwork function and intraocular pressure and is associated with glaucoma in humans. <i>Nature Communications</i> , 2021, 12, 4877.	12.8	20
165	Active Staining of Mouse Embryos for Magnetic Resonance Microscopy. <i>Methods in Molecular Biology</i> , 2010, 611, 141-149.	0.9	20
166	A fast spin echo technique with circular sampling. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 23-27.	3.0	19
167	Optimized radiographic spectra for small animal digital subtraction angiography. <i>Medical Physics</i> , 2006, 33, 4249-4257.	3.0	19
168	Ultrasonic disruption of the blood-brain barrier enables in vivo functional mapping of the mouse barrel field cortex with manganese-enhanced MRI. <i>NeuroImage</i> , 2010, 50, 1464-1471.	4.2	19
169	Temporal and spectral imaging with micro-CT. <i>Medical Physics</i> , 2012, 39, 4943-4958.	3.0	19
170	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013, 218, 767-778.	2.3	19
171	An ontology-based segmentation scheme for tracking postnatal changes in the developing rodent brain with MRI. <i>NeuroImage</i> , 2013, 67, 375-384.	4.2	19
172	Hyperpolarized <sup>3</sup> He microspheres as a novel vascular signal source for MRI. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 440-445.	3.0	18
173	A high-resolution interactive atlas of the human brainstem using magnetic resonance imaging. <i>NeuroImage</i> , 2021, 237, 118135.	4.2	18
174	Rapid production of specialized animal handling devices using computer-aided design and solid freeform fabrication. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 466-471.	3.4	17
175	Genetic dissection of the mouse CNS using magnetic resonance microscopy. <i>Current Opinion in Neurology</i> , 2009, 22, 379-386.	3.6	17
176	Continuing Education Course #3. <i>Toxicologic Pathology</i> , 2011, 39, 289-293.	1.8	17
177	Addendum to "Waxholm Space atlas of the Sprague Dawley rat brain" [ <i>NeuroImage</i> 97 (2014) 374-386]. <i>NeuroImage</i> , 2015, 105, 561-562.	4.2	17
178	Dynamic contrast-enhanced MRI promotes early detection of toxin-induced acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 316, F351-F359.	2.7	17
179	MR microscopy at 7.0 T: Effects of brain iron. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 301-305.	3.4	16
180	Surface coil imaging of rat spine at 7.0 T. <i>Magnetic Resonance Imaging</i> , 1992, 10, 929-934.	1.8	16

#	ARTICLE	IF	CITATIONS
181	Application of MOSFET Detectors for Dosimetry in Small Animal Radiography Using Short Exposure Times. <i>Radiation Research</i> , 2008, 170, 260-263.	1.5	16
182	Cardiovascular phenotyping of the mouse heart using a 4D radial acquisition and liposomal Gd-DTPA-BMA. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 979-987.	3.0	16
183	Micro-CT imaging assessment of dobutamine-induced cardiac stress in rats. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011, 63, 24-29.	0.7	16
184	Denosing of 4D cardiac micro-CT data using median-centric bilateral filtration. , 2012, 8314, .		16
185	The Utility of Micro-CT and MRI in the Assessment of Longitudinal Growth of Liver Metastases in a Preclinical Model of Colon Carcinoma. <i>Academic Radiology</i> , 2013, 20, 430-439.	2.5	16
186	An analysis of the uncertainty and bias in DCEâ€MRI measurements using the spoiled gradientâ€recalled echo pulse sequence. <i>Medical Physics</i> , 2014, 41, 032301.	3.0	16
187	Accelerating quantitative susceptibility imaging acquisition using compressed sensing. <i>Physics in Medicine and Biology</i> , 2018, 63, 245002.	3.0	16
188	In vivo magnetic resonance imaging of the blue crab, <i>Callinectes sapidus</i> : Effect of cadmium accumulation in tissues on proton relaxation properties. <i>The Journal of Experimental Zoology</i> , 1992, 263, 32-40.	1.4	15
189	Quantitative analysis of hyperpolarized <sup>3</sup> He ventilation changes in mice challenged with methacholine. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 658-666.	3.0	15
190	Reduction of artifacts in $T_2^*$ -weighted PROPELLER in high-field preclinical imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 538-543.	3.0	15
191	Comparison of 4D-MicroSPECT and MicroCT for Murine Cardiac Function. <i>Molecular Imaging and Biology</i> , 2014, 16, 235-245.	2.6	15
192	Distinguishing Plant Tissues with Magnetic Resonance Microscopy. <i>American Journal of Botany</i> , 1991, 78, 1704.	1.7	15
193	In vivo Magnetic Resonance Imaging of <i>Blechnum</i> Ferns: Changes in T1 and N (H) During Dehydration and Rehydration. <i>American Journal of Botany</i> , 1991, 78, 80.	1.7	15
194	Magnetic Resonance Imaging (MRI): A New Tool in Experimental Toxicologic Pathology. <i>Toxicologic Pathology</i> , 1988, 16, 386-389.	1.8	14
195	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. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 739-744.	3.4	14
196	Registration-based segmentation of murine 4D cardiac micro-CT data using symmetric normalization. <i>Physics in Medicine and Biology</i> , 2012, 57, 6125-6145.	3.0	14
197	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	14
198	Cardiac micro-computed tomography for morphological and functional phenotyping of muscle LIM protein null mice. <i>Molecular Imaging</i> , 2007, 6, 261-8.	1.4	14

#	ARTICLE	IF	CITATIONS
199	Transition metal-chelate complexes as relaxation modifiers in nuclear magnetic resonance. <i>Medical Physics</i> , 1984, 11, 67-72.	3.0	13
200	MR "Microscopy" of the Rat Thorax. <i>Journal of Computer Assisted Tomography</i> , 1986, 10, 948-952.	0.9	13
201	Image optimization in a computed-radiography/photostimulable-phosphor system. <i>Journal of Digital Imaging</i> , 1989, 2, 212-219.	2.9	13
202	T1? imaging using magnetization-prepared projection encoding (MaPPE). <i>Magnetic Resonance in Medicine</i> , 2000, 43, 421-428.	3.0	13
203	Quantitative Neuromorphometry Using Magnetic Resonance Histology. <i>Toxicologic Pathology</i> , 2011, 39, 85-91.	1.8	13
204	3D Exploration of the Brainstem in 50-Micron Resolution MRI. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 40.	1.7	13
205	Characterization complex collagen fiber architecture in knee joint using high-resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 908-919.	3.0	13
206	An Experimental "Trans-Molybdenum" Tube for Mammography. <i>Radiology</i> , 1978, 127, 511-516.	7.3	12
207	Digital Synthesis of Lung Nodules. <i>Investigative Radiology</i> , 1985, 20, 933-937.	6.2	11
208	Magnetic Resonance Microscopy of Chemically-Induced Liver Foci. <i>Toxicologic Pathology</i> , 1989, 17, 613-616.	1.8	11
209	Magnetic Resonance Microscopy of the Rat Carotid Artery at 300 Megahertz. <i>Investigative Radiology</i> , 1994, 29, 822-826.	6.2	11
210	Development of a noncontact 3-D fluorescence tomography system for small animal in vivo imaging. <i>Proceedings of SPIE</i> , 2009, 7191, nihpa106691.	0.8	11
211	Multishot PROPELLER for high-field preclinical MRI. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 47-53.	3.0	11
212	Multispectral imaging with three-dimensional rosette trajectories. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 581-589.	3.0	10
213	Resolution and b value dependent structural connectome in ex vivo mouse brain. <i>NeuroImage</i> , 2022, 255, 119199.	4.2	10
214	Implementation Of Adaptive Filtration For Digital Chest Imaging. <i>Optical Engineering</i> , 1987, 26, 267669.	1.0	9
215	Functional imaging of the lung. <i>Nature Medicine</i> , 1996, 2, 1192-1192.	30.7	9
216	Magnetic resonance microscopy and histopathology: Comparative approach of bromobenzene-induced hepatotoxicity in the rat. <i>Hepatology</i> , 1998, 27, 526-532.	7.3	9

#	ARTICLE	IF	CITATIONS
217	High-resolution reconstruction of fluorescent inclusions in mouse thorax using anatomically guided sampling and parallel Monte Carlo computing. <i>Biomedical Optics Express</i> , 2011, 2, 2449.	2.9	9
218	Investigations on x-ray luminescence CT for small animal imaging. , 2012, 8313, 83130T.		8
219	4D MRI of polycystic kidneys from rapamycin-treated Glis3-deficient mice. <i>NMR in Biomedicine</i> , 2015, 28, 546-554.	2.8	8
220	IN VIVO MAGNETIC RESONANCE IMAGING OF BLECHNUM FERNS: CHANGES IN T1 AND N(H) DURING DEHYDRATION AND REHYDRATION. <i>American Journal of Botany</i> , 1991, 78, 80-88.	1.7	7
221	A New in Vivo Method for Quantitative Analysis of Stroke Lesions Using Diffusion-Weighted Magnetic Resonance Microscopy. <i>NeuroImage</i> , 1996, 3, 158-166.	4.2	7
222	Morphology of the Small-Animal Lung Using Magnetic Resonance Microscopy. <i>Proceedings of the American Thoracic Society</i> , 2005, 2, 481-483.	3.5	7
223	The INCF Digital Atlasing Program: Report on Digital Atlasing Standards in the Rodent Brain. <i>Nature Precedings</i> , 2009, , .	0.1	7
224	A comparison of sampling strategies for dual energy micro-CT. , 2012, , .		7
225	Localization of Metal Electrodes in the Intact Rat Brain Using Registration of 3D Microcomputed Tomography Images to a Magnetic Resonance Histology Atlas. <i>ENeuro</i> , 2015, 2, ENEURO.0017-15.2015.	1.9	7
226	Structural mapping with fiber tractography of the human cuneate fasciculus at microscopic resolution in cervical region. <i>NeuroImage</i> , 2019, 196, 200-206.	4.2	7
227	TBR-760, a Dopamine-Somatostatin Compound, Arrests Growth of Aggressive Nonfunctioning Pituitary Adenomas in Mice. <i>Endocrinology</i> , 2020, 161, .	2.8	7
228	Time course and mechanism of alterations in proton relaxation during liver regeneration in the rat. <i>Hepatology</i> , 1985, 5, 538-543.	7.3	6
229	Detection of bromobenzene-induced hepatocellular necrosis using magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 1995, 34, 853-857.	3.0	6
230	Ventilation/perfusion imaging in a rat model of airway obstruction. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 728-735.	3.0	6
231	Continuing Education Course #1. <i>Toxicologic Pathology</i> , 2011, 39, 267-272.	1.8	6
232	Maximization of contrast-to-noise ratio to distinguish diffusion and microcirculatory flow. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 39-46.	3.4	5
233	Modern Trends in Imaging VII: Magnetic Resonance Microscopy. <i>Analytical Cellular Pathology</i> , 2012, 35, 205-227.	1.4	5
234	Magnetic Resonance Imaging of Graded Skeletal Muscle Injury in Live Rats. <i>Environmental Health Insights</i> , 2014, 8s1, EHI.S15255.	1.7	5

#	ARTICLE	IF	CITATIONS
235	Four-dimensional MRI of renal function in the developing mouse. NMR in Biomedicine, 2014, 27, 1094-1102.	2.8	5
236	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
237	Simulation of mammographic x-ray spectra. Medical Physics, 1980, 7, 189-195.	3.0	4
238	Static and dynamic cardiac modelling: Initial strides and results towards a quantitatively accurate mechanical heart model. , 2010, , .		4
239	Functional Neuroimaging Using Ultrasonic Blood-brain Barrier Disruption and Manganese-enhanced MRI. Journal of Visualized Experiments, 2012, , e4055.	0.3	4
240	Morphological studies of the murine heart based on probabilistic and statistical atlases. Computerized Medical Imaging and Graphics, 2012, 36, 119-129.	5.8	4
241	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
242	Microcephaly with altered cortical layering in GIT1 deficiency revealed by quantitative neuroimaging. Magnetic Resonance Imaging, 2021, 76, 26-38.	1.8	4
243	A multicontrast MR atlas of the Wistar rat brain. NeuroImage, 2021, 242, 118470.	4.2	4
244	Tractography of Porcine Meniscus Microstructure Using High-Resolution Diffusion Magnetic Resonance Imaging. Frontiers in Endocrinology, 2022, 13, .	3.5	4
245	Measurement and modeling of 4D live mouse heart volumes from CT time series. , 2007, , .		3
246	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
247	Dynamic contrast-enhanced MR microscopy identifies regions of therapeutic response in a preclinical model of colorectal adenocarcinoma. Medical Physics, 2015, 42, 2482-2488.	3.0	3
248	Diffusion tensor imaging using multiple coils for mouse brain connectomics. NMR in Biomedicine, 2018, 31, e3921.	2.8	3
249	Mapping the peripheral nervous system in the whole mouse via compressed sensing tractography. Journal of Neural Engineering, 2021, 18, 044002.	3.5	3
250	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
251	Free-space fluorescence tomography with adaptive sampling based on anatomical information from microCT. Proceedings of SPIE, 2010, 7757, .	0.8	1
252	A LabVIEW Platform for Preclinical Imaging Using Digital Subtraction Angiography and Micro-CT. Journal of Medical Engineering, 2013, 2013, 1-13.	1.1	1

#	ARTICLE	IF	CITATIONS
253	A time-course study of actively stained mouse brains: Diffusion tensor imaging parameters and connectomic stability over 1 year. <i>NMR in Biomedicine</i> , 2022, 35, e4611.	2.8	1
254	Structural Connectivity of Human Inferior Colliculus Subdivisions Using in vivo and post mortem Diffusion MRI Tractography. <i>Frontiers in Neuroscience</i> , 2022, 16, 751595.	2.8	1
255	MR imaging of microcirculation in rat brain: Correlation with carbon dioxide-induced changes in blood flow. <i>Journal of Magnetic Resonance Imaging</i> , 1991, 1, 673-681.	3.4	0
256	Magnetic Resonance Microscopy of Toxic Renal Injury Induced by Bromoethylamine in Rats. <i>Toxicological Sciences</i> , 1991, 16, 787-797.	3.1	0
257	Helical dual source cone-beam micro-CT. , 2014, , .		0
258	Magnetic resonance histology. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1-2.	3.4	0
259	Image-processing pipelines: applications in magnetic resonance histology. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
260	Magnetic Resonance Microscopy. <i>The Electrical Engineering Handbook</i> , 2006, , 15-1-15-14.	0.2	0
261	Magnetic Resonance Microscopy. <i>The Electrical Engineering Handbook</i> , 1999, , .	0.2	0