

G Allan Johnson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

259
papers

9,622
citations

50
h-index

83
g-index

274
ext. papers

10,806
ext. citations

5.2
avg, IF

5.89
L-index

#	Paper	IF	Citations
259	MRI of the lungs using hyperpolarized noble gases. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 1029-51	4.4	330
258	Development of a 4-D digital mouse phantom for molecular imaging research. <i>Molecular Imaging and Biology</i> , 2004 , 6, 149-59	3.8	288
257	Rapid calculation of T1 using variable flip angle gradient refocused imaging. <i>Magnetic Resonance Imaging</i> , 1987 , 5, 201-8	3.3	276
256	Morphologic phenotyping with MR microscopy: the visible mouse. <i>Radiology</i> , 2002 , 222, 789-93	20.5	223
255	Pattern formation in flowing sand. <i>Physical Review Letters</i> , 1989 , 62, 2825-2828	7.4	204
254	Waxholm Space atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2014 , 97, 374-86	7.9	190
253	A liposomal nanoscale contrast agent for preclinical CT in mice. <i>American Journal of Roentgenology</i> , 2006 , 186, 300-7	5.4	190
252	Waxholm space: an image-based reference for coordinating mouse brain research. <i>NeuroImage</i> , 2010 , 53, 365-72	7.9	188
251	Imaging alveolar-capillary gas transfer using hyperpolarized ¹²⁹ Xe MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18278-83	11.5	187
250	High-field (9.4 T) MRI of brain dysmyelination by quantitative mapping of magnetic susceptibility. <i>NeuroImage</i> , 2011 , 56, 930-8	7.9	175
249	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part I: diffusion coefficient. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 721-8	4.4	157
248	Intracardiac septation requires hedgehog-dependent cellular contributions from outside the heart. <i>Development (Cambridge)</i> , 2008 , 135, 1887-95	6.6	137
247	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. <i>Cerebral Cortex</i> , 2015 , 25, 4628-37	5.1	132
246	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac micro-CT. <i>Medical Physics</i> , 2007 , 34, 4476-83	4.4	122
245	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. <i>NeuroImage</i> , 2015 , 117, 408-16	7.9	119
244	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, 1001-11	3.7	112
243	4-D Micro-CT of the Mouse Heart. <i>Molecular Imaging</i> , 2005 , 4, 153535002005041	3.7	110

242	Magnetic resonance histology for morphologic phenotyping. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 423-9	5.6	101
241	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. <i>NeuroImage</i> , 2007 , 37, 82-9	7.9	100
240	Ethanol-induced face-brain dysmorphology patterns are correlative and exposure-stage dependent. <i>PLoS ONE</i> , 2012 , 7, e43067	3.7	100
239	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, 12331-6	11.5	94
238	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	3.7	93
237	MR microscopy of lung airways with hyperpolarized ³ He. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 79-84	4.4	89
236	Methodology for the measurement and analysis of relaxation times in proton imaging. <i>Magnetic Resonance Imaging</i> , 1987 , 5, 209-20	3.3	88
235	Magnetic resonance microscopy of the C57BL mouse brain. <i>NeuroImage</i> , 2000 , 11, 601-11	7.9	81
234	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. <i>NeuroImage</i> , 2012 , 62, 1848-56	7.9	78
233	Digital atlas and standardization in the mouse brain. <i>PLoS Computational Biology</i> , 2011 , 7, e1001065	5	77
232	Abnormal water metabolism in mice lacking the type 1A receptor for ANG II. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 278, F75-82	4.3	77
231	3D fiber tractography with susceptibility tensor imaging. <i>NeuroImage</i> , 2012 , 59, 1290-8	7.9	76
230	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	7.9	74
229	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	4.3	72
228	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. <i>NeuroImage</i> , 2005 , 27, 425-35	7.9	71
227	MR-compatible ventilator for small animals: computer-controlled ventilation for proton and noble gas imaging. <i>Magnetic Resonance Imaging</i> , 2000 , 18, 753-9	3.3	67
226	Spatially resolved measurements of hyperpolarized gas properties in the lung in vivo. Part II: T [*] (2). <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 729-37	4.4	65
225	Signal dynamics in magnetic resonance imaging of the lung with hyperpolarized noble gases. <i>Journal of Magnetic Resonance</i> , 1998 , 135, 133-43	3	63

224	Postmortem diffusion MRI of the human brainstem and thalamus for deep brain stimulator electrode localization. <i>Human Brain Mapping</i> , 2015 , 36, 3167-78	5.9	61
223	Dynamics of magnetization in hyperpolarized gas MRI of the lung. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 66-71	4.4	60
222	Magnetic resonance microscopy of embryos. <i>Computerized Medical Imaging and Graphics</i> , 1996 , 20, 483-906		59
221	Superparamagnetic iron oxide labeling and transplantation of adipose-derived stem cells in middle cerebral artery occlusion-injured mice. <i>American Journal of Roentgenology</i> , 2007 , 188, 1101-8	5.4	58
220	Diabetes insipidus in uricase-deficient mice: a model for evaluating therapy with poly(ethylene glycol)-modified uricase. <i>Journal of the American Society of Nephrology: JASN</i> , 2001 , 12, 1001-1009	12.7	58
219	Functional MR microscopy of the lung using hyperpolarized ³ He. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 787-92	4.4	56
218	4-D micro-CT of the mouse heart. <i>Molecular Imaging</i> , 2005 , 4, 110-6	3.7	54
217	Computed tomography imaging of primary lung cancer in mice using a liposomal-iodinated contrast agent. <i>PLoS ONE</i> , 2012 , 7, e34496	3.7	53
216	Microscopic diffusion tensor imaging of the mouse brain. <i>NeuroImage</i> , 2010 , 50, 465-71	7.9	53
215	Purkinje cell loss in experimental autoimmune encephalomyelitis. <i>NeuroImage</i> , 2009 , 48, 637-51	7.9	53
214	High-resolution imaging of murine myocardial infarction with delayed-enhancement cine micro-CT. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H3172-8	5.2	53
213	The use of gradient flow compensation to separate diffusion and microcirculatory flow in MRI. <i>Magnetic Resonance in Medicine</i> , 1991 , 17, 95-107	4.4	53
212	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. <i>NeuroImage</i> , 2008 , 39, 136-45	7.9	51
211	³ He MRI in mouse models of asthma. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 893-900	4.4	51
210	Optimization of eight-element multi-detector row helical CT technology for evaluation of the abdomen. <i>Radiology</i> , 2003 , 227, 739-45	20.5	51
209	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, 953-64		50
208	Mechanical ventilation for imaging the small animal lung. <i>ILAR Journal</i> , 2002 , 43, 159-74	1.7	50
207	Dual-energy computed tomography imaging of atherosclerotic plaques in a mouse model using a liposomal-iodine nanoparticle contrast agent. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 285-94	3.9	49

206	Registered (1)H and (3)He magnetic resonance microscopy of the lung. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 365-70	4.4	49
205	Fiber-optic stethoscope: a cardiac monitoring and gating system for magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 314-21	4.4	48
204	Measurement of regional lung function in rats using hyperpolarized 3helium dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 78-88	4.4	48
203	Neuroanatomical phenotypes in the reeler mouse. <i>NeuroImage</i> , 2007 , 34, 1363-74	7.9	47
202	Magnetic resonance angiography with hyperpolarized 129Xe dissolved in a lipid emulsion. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 1058-64	4.4	47
201	Three-dimensional MRI microscopy of the normal rat brain. <i>Magnetic Resonance in Medicine</i> , 1987 , 4, 351-65	4.4	47
200	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, 1353-9	4	46
199	Measurements of hyperpolarized gas properties in the lung. Part III: (3)He T(1). <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 421-30	4.4	46
198	Diffusion-weighted MR microscopy with fast spin-echo. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 201-6	4.4	46
197	Effects of breathing and cardiac motion on spatial resolution in the microscopic imaging of rodents. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 858-65	4.4	44
196	Magnetic resonance imaging in multiple sclerosis: decreased signal in thalamus and putamen. <i>Annals of Neurology</i> , 1987 , 22, 546-50	9.4	44
195	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1270-81	4.4	43
194	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	4.4	43
193	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, 153-64	3.2	43
192	Reduction of ringing and blurring artifacts in fast spin-echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1993 , 3, 803-7	5.6	43
191	A dual micro-CT system for small animal imaging. <i>Proceedings of SPIE</i> , 2008 , 6913, 691342	1.7	42
190	Four-dimensional MR microscopy of the mouse heart using radial acquisition and liposomal gadolinium contrast agent. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 111-8	4.4	42
189	Magnetic resonance imaging at microscopic resolution reveals subtle morphological changes in a mouse model of dopaminergic hyperfunction. <i>NeuroImage</i> , 2005 , 26, 83-90	7.9	42

188	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, 938-50	5.4	41
187	MR microimaging of the lung using volume projection encoding. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 938-42	4.4	41
186	Optimization of multiplanar reformations from isotropic data sets acquired with 16-detector row helical CT scanner. <i>Radiology</i> , 2006 , 238, 292-9	20.5	41
185	Geometric calibration for a dual tube/detector micro-CT system. <i>Medical Physics</i> , 2008 , 35, 1820-9	4.4	40
184	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, 152-60	2.9	40
183	Staining methods for magnetic resonance microscopy of the rat fetus. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 1192-8	5.6	39
182	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, 243-51	4.8	38
181	Adult rat cortical thickness changes across age and following adolescent intermittent ethanol treatment. <i>Addiction Biology</i> , 2017 , 22, 712-723	4.6	38
180	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. <i>NeuroImage</i> , 2009 , 45, 1067-79	7.9	38
179	Performance of a high-temperature superconducting probe for in vivo microscopy at 2.0 T. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 72-9	4.4	38
178	Quantitative magnetic susceptibility of the developing mouse brain reveals microstructural changes in the white matter. <i>NeuroImage</i> , 2014 , 88, 134-42	7.9	37
177	Quantitative susceptibility mapping of kidney inflammation and fibrosis in type 1 angiotensin receptor-deficient mice. <i>NMR in Biomedicine</i> , 2013 , 26, 1853-63	4.4	37
176	Remote sites of structural atrophy predict later amyloid formation in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2010 , 50, 416-27	7.9	37
175	Applications of magnetic resonance microscopy. <i>Toxicologic Pathology</i> , 2004 , 32 Suppl 2, 42-8	2.1	37
174	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	7.6	37
173	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, 1134-42	5	36
172	Optical clearing of unsectioned specimens for three-dimensional imaging via optical transmission and emission tomography. <i>Journal of Biomedical Optics</i> , 2008 , 13, 021113	3.5	36
171	Enhanced T2 contrast for MR histology of the mouse brain. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 717-25	4.4	36

170	Sensitivity and resolution in 3D NMR microscopy of the lung with hyperpolarized noble gases. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 800-8	4.4	36
169	Imaging whole-brain cytoarchitecture of mouse with MRI-based quantitative susceptibility mapping. <i>NeuroImage</i> , 2016 , 137, 107-115	7.9	36
168	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, 686-93	4	35
167	Ventilation-synchronous magnetic resonance microscopy of pulmonary structure and ventilation in mice. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 69-75	4.4	35
166	MR microscopy of the rat carotid artery after balloon injury by using an implanted imaging coil. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 785-9	4.4	35
165	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	3.9	34
164	Imaging methods for morphological and functional phenotyping of the rodent heart. <i>Toxicologic Pathology</i> , 2006 , 34, 111-7	2.1	34
163	Magnetic resonance imaging of leaves. <i>New Phytologist</i> , 1993 , 123, 769-774	9.8	34
162	In situ magnetic resonance microscopy. <i>Investigative Radiology</i> , 1987 , 22, 965-8	10.1	34
161	Microscopic diffusion tensor atlas of the mouse brain. <i>NeuroImage</i> , 2011 , 56, 1235-43	7.9	33
160	High-field MR microscopy using fast spin-echoes. <i>Magnetic Resonance in Medicine</i> , 1993 , 30, 60-7	4.4	32
159	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, 161-8	3.2	31
158	High-resolution magnetic resonance angiography in the mouse using a nanoparticle blood-pool contrast agent. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1447-56	4.4	31
157	Time-course imaging of rat embryos in utero with magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 673-7	4.4	31
156	4D micro-CT for cardiac and perfusion applications with view under sampling. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3351-69	3.8	30
155	Magnetic resonance microscopy in basic studies of brain structure and function. <i>Annals of the New York Academy of Sciences</i> , 1997 , 820, 139-47; discussion 147-8	6.5	30
154	Neurotoxicity of carbonyl sulfide in F344 rats following inhalation exposure for up to 12 weeks. <i>Toxicology and Applied Pharmacology</i> , 2004 , 200, 131-45	4.6	30
153	T1 rho relaxation and its application to MR histology. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 781-6	4.4	29

152	MR microscopy of chick embryo vasculature. <i>Journal of Magnetic Resonance Imaging</i> , 1992 , 2, 237-40	5.6	29
151	Mapping the human subcortical auditory system using histology, postmortem MRI and in vivo MRI at 7T. <i>ELife</i> , 2019 , 8,	8.9	29
150	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	3.5	28
149	Lung perfusion imaging in small animals using 4D micro-CT at heartbeat temporal resolution. <i>Medical Physics</i> , 2010 , 37, 54-62	4.4	28
148	Magnetic resonance microscopy of the rat thorax and abdomen. <i>Investigative Radiology</i> , 1986 , 21, 843-6	10.1	28
147	Neurite orientation dispersion and density imaging of mouse brain microstructure. <i>Brain Structure and Function</i> , 2019 , 224, 1797-1813	4	27
146	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. <i>NeuroImage</i> , 2012 , 63, 1633-45	7.9	27
145	Magnetic resonance histology of age-related nephropathy in the Sprague Dawley rat. <i>Toxicologic Pathology</i> , 2012 , 40, 764-78	2.1	27
144	Whole mouse brain structural connectomics using magnetic resonance histology. <i>Brain Structure and Function</i> , 2018 , 223, 4323-4335	4	27
143	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011 , 58, 975-83	7.9	26
142	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, 239-50	7.6	26
141	Imaging inflammation: direct visualization of perivascular cuffing in EAE by magnetic resonance microscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 28-36	5.6	26
140	Mixing oxygen with hyperpolarized (3)He for small-animal lung studies. <i>NMR in Biomedicine</i> , 2000 , 13, 202-6	4.4	26
139	3-Dimensional visualization of lesions in rat brain using magnetic resonance imaging microscopy. <i>NeuroReport</i> , 1999 , 10, 737-41	1.7	26
138	Prenatal alcohol exposure reduces magnetic susceptibility contrast and anisotropy in the white matter of mouse brains. <i>NeuroImage</i> , 2014 , 102 Pt 2, 748-55	7.9	25
137	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, 5667-85	5.9	25
136	Improving temporal resolution of pulmonary perfusion imaging in rats using the partially separable functions model. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1162-70	4.4	25
135	A high-precision contrast injector for small animal x-ray digital subtraction angiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 1082-91	5	25

134	Dynamic lung morphology of methacholine-induced heterogeneous bronchoconstriction. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1080-6	4.4	25
133	Improved preparation of chick embryonic samples for magnetic resonance microscopy. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 1192-5	4.4	25
132	Magnetic resonance microscopy--a new tool for the toxicologic pathologist. <i>Toxicologic Pathology</i> , 1996 , 24, 36-44	2.1	25
131	Three dimensional magnetic resonance microangiography of rat neurovasculature. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 199-205	4.4	25
130	A probe for specimen magnetic resonance microscopy. <i>Investigative Radiology</i> , 1992 , 27, 157-64	10.1	25
129	Pulmonary perfusion imaging in the rodent lung using dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 289-97	4.4	24
128	Cine magnetic resonance microscopy of the rat heart using cardiorespiratory-synchronous projection reconstruction. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 20, 31-8	5.6	24
127	DISTINGUISHING PLANT TISSUES WITH MAGNETIC RESONANCE MICROSCOPY. <i>American Journal of Botany</i> , 1991 , 78, 1704-1711	2.7	24
126	Susceptibility tensor imaging and tractography of collagen fibrils in the articular cartilage. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1683-1690	4.4	23
125	A micro-computed tomography-based method for the measurement of pulmonary compliance in healthy and bleomycin-exposed mice. <i>Experimental Lung Research</i> , 2007 , 33, 169-83	2.3	22
124	Measurement of fat/water ratios in rat liver using 3D three-point dixon MRI. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 697-702	4.4	22
123	Cardiac MicroComputed Tomography for Morphological and Functional Phenotyping of Muscle LIM Protein Null Mice. <i>Molecular Imaging</i> , 2007 , 6, 7290.2007.00022	3.7	22
122	Dual-energy micro-CT imaging for differentiation of iodine- and gold-based nanoparticles 2011 ,		21
121	Design of a superconducting volume coil for magnetic resonance microscopy of the mouse brain. <i>Journal of Magnetic Resonance</i> , 2008 , 191, 231-8	3	21
120	MRI tools for assessment of microstructure and nephron function of the kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 311, F1109-F1124	4.3	21
119	Small Animal Multivariate Brain Analysis (SAMBA) - a High Throughput Pipeline with a Validation Framework. <i>Neuroinformatics</i> , 2019 , 17, 451-472	3.2	20
118	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. <i>NeuroToxicology</i> , 2014 , 42, 12-23	4.4	20
117	Virtual neuropathology: three-dimensional visualization of lesions due to toxic insult. <i>Toxicologic Pathology</i> , 2000 , 28, 100-4	2.1	20

116	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, F174-82	4.3	19
115	Quantitative blood flow measurements in the small animal cardiopulmonary system using digital subtraction angiography. <i>Medical Physics</i> , 2009 , 36, 5347-58	4.4	19
114	Three-dimensional imaging of xenograft tumors using optical computed and emission tomography. <i>Medical Physics</i> , 2006 , 33, 3193-202	4.4	19
113	Optimized radiographic spectra for small animal digital subtraction angiography. <i>Medical Physics</i> , 2006 , 33, 4249-57	4.4	19
112	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. <i>Medical Physics</i> , 2007 , 34, 1546-55	4.4	19
111	Contribution of magnetic resonance microscopy in the 12-week neurotoxicity evaluation of carbonyl sulfide in Fischer 344 rats. <i>Toxicologic Pathology</i> , 2004 , 32, 501-10	2.1	19
110	Studies on bromobenzene-induced hepatotoxicity using in vivo MR microscopy with surgically implanted RF coils. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 619-27	4.4	19
109	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	4.4	18
108	4D micro-CT using fast prospective gating. <i>Physics in Medicine and Biology</i> , 2012 , 57, 257-71	3.8	18
107	A fast spin echo technique with circular sampling. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 23-7	4.4	18
106	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, 1464-71	7.9	17
105	Hyperpolarized ³ He NMR lineshape measurements in the live guinea pig lung. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 61-5	4.4	17
104	A micro-CT analysis of murine lung recruitment in bleomycin-induced lung injury. <i>Journal of Applied Physiology</i> , 2008 , 105, 669-77	3.7	17
103	Hyperpolarized ³ He microspheres as a novel vascular signal source for MRI. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 440-5	4.4	17
102	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013 , 218, 767-78	4	16
101	Diffusion tensor magnetic resonance histology reveals microstructural changes in the developing rat brain. <i>NeuroImage</i> , 2013 , 79, 329-39	7.9	16
100	An ontology-based segmentation scheme for tracking postnatal changes in the developing rodent brain with MRI. <i>NeuroImage</i> , 2013 , 67, 375-84	7.9	16
99	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, 539-50	4	16

98	Temporal and spectral imaging with micro-CT. <i>Medical Physics</i> , 2012 , 39, 4943-58	4.4	16
97	Rapid production of specialized animal handling devices using computer-aided design and solid freeform fabrication. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 466-71	5.6	16
96	A symmetrical Waxholm canonical mouse brain for NeuroMaps. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 170-5	3	16
95	MR microscopy at 7.0 T: effects of brain iron. <i>Journal of Magnetic Resonance Imaging</i> , 1991 , 1, 301-5	5.6	16
94	Active staining of mouse embryos for magnetic resonance microscopy. <i>Methods in Molecular Biology</i> , 2010 , 611, 141-9	1.4	16
93	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	3.7	15
92	Continuing education course #3: current practices and future trends in neuropathology assessment for developmental neurotoxicity testing. <i>Toxicologic Pathology</i> , 2011 , 39, 289-93	2.1	15
91	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		15
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