

G Allan Johnson

List of Publications by Year in Descending Order

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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	Structural Connectivity of Human Inferior Colliculus Subdivisions Using and Diffusion MRI Tractography.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 751595	5.1	0
258	Resolution and b value dependent Structural Connectome in ex vivo Mouse Brain.. <i>NeuroImage</i> , 2022 , 119199	7.9	0
257	Ex Vivo MR Histology and Cytometric Feature Mapping Connect Three-dimensional in Vivo MR Images to Two-dimensional Histopathologic Images of Murine Sarcomas. <i>Radiology Imaging Cancer</i> , 2021 , 3, e200103	1.4	0
256	Microcephaly with altered cortical layering in GIT1 deficiency revealed by quantitative neuroimaging. <i>Magnetic Resonance Imaging</i> , 2021 , 76, 26-38	3.3	1
255	A high-resolution interactive atlas of the human brainstem using magnetic resonance imaging. <i>NeuroImage</i> , 2021 , 237, 118135	7.9	6
254	GLIS1 regulates trabecular meshwork function and intraocular pressure and is associated with glaucoma in humans. <i>Nature Communications</i> , 2021 , 12, 4877	17.4	6
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> , 2021 , e4611	4.4	0
252	A multicontrast MR atlas of the Wistar rat brain. <i>NeuroImage</i> , 2021 , 242, 118470	7.9	1
251	Qualitative and Quantitative Neuropathology Approaches Using Magnetic Resonance Microscopy (Diffusion Tensor Imaging) and Stereology in a Hexachlorophene Model of Myelinopathy in Sprague-Dawley Rats. <i>Toxicologic Pathology</i> , 2020 , 48, 965-980	2.1	1
250	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	3
249	TBR-760, a Dopamine-Somatostatin Compound, Arrests Growth of Aggressive Nonfunctioning Pituitary Adenomas in Mice. <i>Endocrinology</i> , 2020 , 161,	4.8	3
248	Characterization complex collagen fiber architecture in knee joint using high-resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 908-919	4.4	3
247	Cytoarchitecture of the mouse brain by high resolution diffusion magnetic resonance imaging. <i>NeuroImage</i> , 2020 , 216, 116876	7.9	9
246	3D Exploration of the Brainstem in 50-Micron Resolution MRI. <i>Frontiers in Neuroanatomy</i> , 2020 , 14, 40	3.6	7
245	Variability and heritability of mouse brain structure: Microscopic MRI atlases and connectomes for diverse strains. <i>NeuroImage</i> , 2020 , 222, 117274	7.9	8
244	Small Animal Multivariate Brain Analysis (SAMBA) - a High Throughput Pipeline with a Validation Framework. <i>Neuroinformatics</i> , 2019 , 17, 451-472	3.2	20
243	Diffusion tractography of the rat knee at microscopic resolution. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3775-3786	4.4	12

242	Neurite orientation dispersion and density imaging of mouse brain microstructure. <i>Brain Structure and Function</i> , 2019 , 224, 1797-1813	4	27
241	Structural mapping with fiber tractography of the human cuneate fasciculus at microscopic resolution in cervical region. <i>NeuroImage</i> , 2019 , 196, 200-206	7.9	3
240	Mapping the human subcortical auditory system using histology, postmortem MRI and in vivo MRI at 7T. <i>ELife</i> , 2019 , 8,	8.9	29
239	Author response: Mapping the human subcortical auditory system using histology, postmortem MRI and in vivo MRI at 7T 2019 ,		2
238	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	3.9	12
237	Whole mouse brain connectomics. <i>Journal of Comparative Neurology</i> , 2019 , 527, 2146-2157	3.4	10
236	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	4.3	10
235	Diffusion tensor imaging using multiple coils for mouse brain connectomics. <i>NMR in Biomedicine</i> , 2018 , 31, e3921	4.4	3
234	Accelerating quantitative susceptibility imaging acquisition using compressed sensing. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245002	3.8	6
233	Whole mouse brain structural connectomics using magnetic resonance histology. <i>Brain Structure and Function</i> , 2018 , 223, 4323-4335	4	27
232	Postmortem diffusion MRI of the entire human spinal cord at microscopic resolution. <i>NeuroImage: Clinical</i> , 2018 , 18, 963-971	5.3	15
231	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
230	Adult rat cortical thickness changes across age and following adolescent intermittent ethanol treatment. <i>Addiction Biology</i> , 2017 , 22, 712-723	4.6	38
229	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
228	Tumor location, but not H3.3K27M, 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
227	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
226	Imaging whole-brain cytoarchitecture of mouse with MRI-based quantitative susceptibility mapping. <i>NeuroImage</i> , 2016 , 137, 107-115	7.9	36
225	Addendum to Waxholm Space atlas of the Sprague Dawley rat brain [NeuroImage 97 (2014) 374-386]. <i>NeuroImage</i> , 2015 , 105, 561-2	7.9	11

224	Dynamic contrast-enhanced MR microscopy identifies regions of therapeutic response in a preclinical model of colorectal adenocarcinoma. <i>Medical Physics</i> , 2015 , 42, 2482-8	4.4	3
223	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
222	A diffusion tensor MRI atlas of the postmortem rhesus macaque brain. <i>NeuroImage</i> , 2015 , 117, 408-16	7.9	119
221	Susceptibility tensor imaging of the kidney and its microstructural underpinnings. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1270-81	4.4	43
220	Magnetic resonance histology. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 1-2	5.6	
219	4D MRI of polycystic kidneys from rapamycin-treated Glis3-deficient mice. <i>NMR in Biomedicine</i> , 2015 , 28, 546-54	4.4	6
218	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,	3.9	5
217	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
216	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
215	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
214	Quantitative mapping of trimethyltin injury in the rat brain using magnetic resonance histology. <i>NeuroToxicology</i> , 2014 , 42, 12-23	4.4	20
213	Comparison of 4D-microSPECT and microCT for murine cardiac function. <i>Molecular Imaging and Biology</i> , 2014 , 16, 235-45	3.8	13
212	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
211	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
210	Magnetic resonance imaging of graded skeletal muscle injury in live rats. <i>Environmental Health Insights</i> , 2014 , 8, 31-9	1.4	5
209	Four-dimensional MRI of renal function in the developing mouse. <i>NMR in Biomedicine</i> , 2014 , 27, 1094-102	4.4	5
208	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
207	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

206	An analysis of the uncertainty and bias in DCE-MRI measurements using the spoiled gradient-recalled echo pulse sequence. <i>Medical Physics</i> , 2014 , 41, 032301	4.4	13
205	Waxholm Space atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2014 , 97, 374-86	7.9	190
204	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
203	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
202	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013 , 218, 767-78	4	16
201	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
200	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, 430-9	4.3	14
199	Diffusion tensor magnetic resonance histology reveals microstructural changes in the developing rat brain. <i>NeuroImage</i> , 2013 , 79, 329-39	7.9	16
198	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
197	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
196	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
195	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
194	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
193	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
192	A LabVIEW Platform for Preclinical Imaging Using Digital Subtraction Angiography and Micro-CT. <i>Journal of Medical Engineering</i> , 2013 , 2013, 581617		1
191	Plants, Seeds, Roots, and Soils as Applications of Magnetic Resonance Microscopy 2012 ,		1
190	3D fiber tractography with susceptibility tensor imaging. <i>NeuroImage</i> , 2012 , 59, 1290-8	7.9	76
189	A multidimensional magnetic resonance histology atlas of the Wistar rat brain. <i>NeuroImage</i> , 2012 , 62, 1848-56	7.9	78

188	Quantitative mouse brain phenotyping based on single and multispectral MR protocols. <i>NeuroImage</i> , 2012 , 63, 1633-45	7.9	27
187	Temporal and spectral imaging with micro-CT. <i>Medical Physics</i> , 2012 , 39, 4943-58	4.4	16
186	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
185	Modern Trends in Imaging VII: Magnetic Resonance Microscopy. <i>Analytical Cellular Pathology</i> , 2012 , 35, 205-227	3.4	5
184	Morphological studies of the murine heart based on probabilistic and statistical atlases. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 119-29	7.6	3
183	Denosing of 4D Cardiac Micro-CT Data Using Median-Centric Bilateral Filtration. <i>Proceedings of SPIE</i> , 2012 , 8314,	1.7	11
182	Magnetic resonance histology of age-related nephropathy in the Sprague Dawley rat. <i>Toxicologic Pathology</i> , 2012 , 40, 764-78	2.1	27
181	Registration-based segmentation of murine 4D cardiac micro-CT data using symmetric normalization. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6125-45	3.8	13
180	4D micro-CT using fast prospective gating. <i>Physics in Medicine and Biology</i> , 2012 , 57, 257-71	3.8	18
179	Investigations on X-ray luminescence CT for small animal imaging. <i>Proceedings of SPIE</i> , 2012 , 8313, 83130T7	1.7	7
178	Functional neuroimaging using ultrasonic blood-brain barrier disruption and manganese-enhanced MRI. <i>Journal of Visualized Experiments</i> , 2012 , e4055	1.6	3
177	A comparison of sampling strategies for dual energy micro-CT 2012 ,		5
176	Ethanol-induced face-brain dysmorphology patterns are correlative and exposure-stage dependent. <i>PLoS ONE</i> , 2012 , 7, e43067	3.7	100
175	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
174	Microscopic diffusion tensor atlas of the mouse brain. <i>NeuroImage</i> , 2011 , 56, 1235-43	7.9	33
173	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011 , 58, 975-83	7.9	26
172	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, 2449-60	3.5	7
171	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

170	Micro-CT imaging assessment of dobutamine-induced cardiac stress in rats. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011 , 63, 24-9	1.7	14
169	In vivo imaging of rat coronary arteries using bi-plane digital subtraction angiography. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011 , 64, 151-7	1.7	3
168	Phenylephrine-modulated cardiopulmonary blood flow measured with use of X-ray digital subtraction angiography. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011 , 64, 180-6	1.7	2
167	Reduction of artifacts in T2 -weighted PROPELLER in high-field preclinical imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 538-43	4.4	12
166	A symmetrical Waxholm canonical mouse brain for NeuroMaps. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 170-5	3	16
165	Dual-energy micro-CT imaging for differentiation of iodine- and gold-based nanoparticles 2011 ,		21
164	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
163	Continuing education course #1: non-invasive imaging as a problem-solving tool and translational biomarker strategy in toxicologic pathology. <i>Toxicologic Pathology</i> , 2011 , 39, 267-72	2.1	5
162	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
161	Quantitative neuromorphometry using magnetic resonance histology. <i>Toxicologic Pathology</i> , 2011 , 39, 85-91	2.1	10
160	Digital atlasing and standardization in the mouse brain. <i>PLoS Computational Biology</i> , 2011 , 7, e1001065	5	77
159	Static and dynamic cardiac modelling: Initial strides and results towards a quantitatively accurate mechanical heart model 2010 ,		4
158	Free-space fluorescence tomography with adaptive sampling based on anatomical information from microCT. <i>Proceedings of SPIE</i> , 2010 , 7757,	1.7	1
157	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
156	Waxholm space: an image-based reference for coordinating mouse brain research. <i>NeuroImage</i> , 2010 , 53, 365-72	7.9	188
155	Microscopic diffusion tensor imaging of the mouse brain. <i>NeuroImage</i> , 2010 , 50, 465-71	7.9	53
154	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
153	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

152	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
151	Ventilation/perfusion imaging in a rat model of airway obstruction. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 728-35	4.4	6
150	Cardiovascular phenotyping of the mouse heart using a 4D radial acquisition and liposomal Gd-DTPA-BMA. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 979-87	4.4	13
149	Quantitative analysis of hyperpolarized ³ He ventilation changes in mice challenged with methacholine. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 658-66	4.4	14
148	Multishot PROPELLER for high-field preclinical MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 47-53	4.4	10
147	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
146	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
145	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
144	Active staining of mouse embryos for magnetic resonance microscopy. <i>Methods in Molecular Biology</i> , 2010 , 611, 141-9	1.4	16
143	The INCF Digital Atlas Program: Report on Digital Atlas Standards in the Rodent Brain. <i>Nature Precedings</i> , 2009 ,		6
142	Development of a noncontact 3-D fluorescence tomography system for small animal in vivo imaging. <i>Proceedings of SPIE</i> , 2009 , 7191, nihpa106691	1.7	9
141	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
140	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
139	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
138	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
137	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
136	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
135	Genetic dissection of the mouse brain using high-field magnetic resonance microscopy. <i>NeuroImage</i> , 2009 , 45, 1067-79	7.9	38

134	Purkinje cell loss in experimental autoimmune encephalomyelitis. <i>NeuroImage</i> , 2009 , 48, 637-51	7.9	53
133	Genetic dissection of the mouse CNS using magnetic resonance microscopy. <i>Current Opinion in Neurology</i> , 2009 , 22, 379-86	7.1	12
132	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
131	Automated segmentation of the actively stained mouse brain using multi-spectral MR microscopy. <i>NeuroImage</i> , 2008 , 39, 136-45	7.9	51
130	Application of MOSFET detectors for dosimetry in small animal radiography using short exposure times. <i>Radiation Research</i> , 2008 , 170, 260-3	3.1	14
129	A dual micro-CT system for small animal imaging. <i>Proceedings of SPIE</i> , 2008 , 6913, 691342	1.7	42
128	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
127	Intracardiac septation requires hedgehog-dependent cellular contributions from outside the heart. <i>Development (Cambridge)</i> , 2008 , 135, 1887-95	6.6	137
126	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
125	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
124	Geometric calibration for a dual tube/detector micro-CT system. <i>Medical Physics</i> , 2008 , 35, 1820-9	4.4	40
123	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
122	Multispectral imaging with three-dimensional rosette trajectories. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 581-9	4.4	7
121	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
120	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
119	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
118	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
117	³ He MRI in mouse models of asthma. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 893-900	4.4	51

116	Staining methods for magnetic resonance microscopy of the rat fetus. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 1192-8	5.6	39
115	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
114	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
113	Tomographic digital subtraction angiography for lung perfusion estimation in rodents. <i>Medical Physics</i> , 2007 , 34, 1546-55	4.4	19
112	Sparseness prior based iterative image reconstruction for retrospectively gated cardiac micro-CT. <i>Medical Physics</i> , 2007 , 34, 4476-83	4.4	122
111	Measurement and modeling of 4D live mouse heart volumes from CT time series 2007 ,		2
110	Neuroanatomical phenotypes in the reeler mouse. <i>NeuroImage</i> , 2007 , 34, 1363-74	7.9	47
109	High-throughput morphologic phenotyping of the mouse brain with magnetic resonance histology. <i>NeuroImage</i> , 2007 , 37, 82-9	7.9	100
108	Cardiac micro-computed tomography for morphological and functional phenotyping of muscle LIM protein null mice. <i>Molecular Imaging</i> , 2007 , 6, 261-8	3.7	13
107	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
106	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
105	Enhanced T2 contrast for MR histology of the mouse brain. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 717-25	4.4	36
104	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
103	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
102	Imaging methods for morphological and functional phenotyping of the rodent heart. <i>Toxicologic Pathology</i> , 2006 , 34, 111-7	2.1	34
101	Three-dimensional imaging of xenograft tumors using optical computed and emission tomography. <i>Medical Physics</i> , 2006 , 33, 3193-202	4.4	19
100	Optimized radiographic spectra for small animal digital subtraction angiography. <i>Medical Physics</i> , 2006 , 33, 4249-57	4.4	19
99	A liposomal nanoscale contrast agent for preclinical CT in mice. <i>American Journal of Roentgenology</i> , 2006 , 186, 300-7	5.4	190

98	Magnetic Resonance Microscopy. <i>The Electrical Engineering Handbook</i> , 2006 , 15-1-15-14		
97	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
96	Automated segmentation of neuroanatomical structures in multispectral MR microscopy of the mouse brain. <i>NeuroImage</i> , 2005 , 27, 425-35	7.9	71
95	4-D Micro-CT of the Mouse Heart. <i>Molecular Imaging</i> , 2005 , 4, 153535002005041	3.7	110
94	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
93	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
92	Morphology of the small-animal lung using magnetic resonance microscopy. <i>Proceedings of the American Thoracic Society</i> , 2005 , 2, 481-3, 501-2		7
91	4-D micro-CT of the mouse heart. <i>Molecular Imaging</i> , 2005 , 4, 110-6	3.7	54
90	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
89	Applications of magnetic resonance microscopy. <i>Toxicologic Pathology</i> , 2004 , 32 Suppl 2, 42-8	2.1	37
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