

R Mark Henkelman

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195
papers

21,230
citations

71
h-index

143
g-index

205
ext. papers

23,729
ext. citations

6.7
avg, IF

6.42
L-index

#	Paper	IF	Citations
195	Identification of human brain tumour initiating cells. <i>Nature</i> , 2004 , 432, 396-401	50.4	5869
194	Measurement of signal intensities in the presence of noise in MR images. <i>Medical Physics</i> , 1985 , 12, 232-34	4.4	782
193	High-throughput discovery of novel developmental phenotypes. <i>Nature</i> , 2016 , 537, 508-514	50.4	608
192	Quantitative interpretation of magnetization transfer. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 759-66	4.4	556
191	Behavioral phenotypes of Disc1 missense mutations in mice. <i>Neuron</i> , 2007 , 54, 387-402	13.9	445
190	GLP-1R agonist liraglutide activates cytoprotective pathways and improves outcomes after experimental myocardial infarction in mice. <i>Diabetes</i> , 2009 , 58, 975-83	0.9	422
189	Baf60c is essential for function of BAF chromatin remodelling complexes in heart development. <i>Nature</i> , 2004 , 432, 107-12	50.4	413
188	An analytical model of restricted diffusion in bovine optic nerve. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 103-11	4.4	393
187	Anisotropy of NMR properties of tissues. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 592-601	4.4	370
186	Practical T2 quantitation for clinical applications. <i>Journal of Magnetic Resonance Imaging</i> , 1992 , 2, 541-53	5.6	330
185	Angiotensin-1 is essential in mouse vasculature during development and in response to injury. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2278-89	15.9	303
184	Ex vivo tissue-type independence in proton-resonance frequency shift MR thermometry. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 454-9	4.4	263
183	Maze training in mice induces MRI-detectable brain shape changes specific to the type of learning. <i>NeuroImage</i> , 2011 , 54, 2086-95	7.9	236
182	Diffusible iodine-based contrast-enhanced computed tomography (diceCT): an emerging tool for rapid, high-resolution, 3-D imaging of metazoan soft tissues. <i>Journal of Anatomy</i> , 2016 , 228, 889-909	2.9	233
181	Genetic deletion or pharmacological inhibition of dipeptidyl peptidase-4 improves cardiovascular outcomes after myocardial infarction in mice. <i>Diabetes</i> , 2010 , 59, 1063-73	0.9	228
180	A model for magnetization transfer in tissues. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 475-82	4.4	228
179	MR image artifacts from periodic motion. <i>Medical Physics</i> , 1985 , 12, 143-51	4.4	215

178	Dosage-dependent phenotypes in models of 16p11.2 lesions found in autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17076-81	11.5	209
177	Gd-DTPA relaxivity depends on macromolecular content. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 665-74	7.4	186
176	Why fat is bright in RARE and fast spin-echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1992 , 2, 533-40	5.6	170
175	Foxh1 is essential for development of the anterior heart field. <i>Developmental Cell</i> , 2004 , 7, 331-45	10.2	160
174	A comparison of one-shot and recovery methods in T1 imaging. <i>Magnetic Resonance in Medicine</i> , 1988 , 7, 23-34	4.4	158
173	A mouse model of Down syndrome trisomic for all human chromosome 21 syntenic regions. <i>Human Molecular Genetics</i> , 2010 , 19, 2780-91	5.6	153
172	Three-dimensional analysis of vascular development in the mouse embryo. <i>PLoS ONE</i> , 2008 , 3, e2853	3.7	150
171	Tbx5-dependent rheostatic control of cardiac gene expression and morphogenesis. <i>Developmental Biology</i> , 2006 , 297, 566-86	3.1	142
170	Abnormalities in brain structure and behavior in GSK-3alpha mutant mice. <i>Molecular Brain</i> , 2009 , 2, 35	4.5	138
169	Behavioral abnormalities and circuit defects in the basal ganglia of a mouse model of 16p11.2 deletion syndrome. <i>Cell Reports</i> , 2014 , 7, 1077-1092	10.6	137
168	Automated deformation analysis in the YAC128 Huntington disease mouse model. <i>NeuroImage</i> , 2008 , 39, 32-9	7.9	136
167	Prostate cancer: MR imaging and thermometry during microwave thermal ablation-initial experience. <i>Radiology</i> , 2000 , 214, 290-7	20.5	129
166	Sexual dimorphism revealed in the structure of the mouse brain using three-dimensional magnetic resonance imaging. <i>NeuroImage</i> , 2007 , 35, 1424-33	7.9	128
165	Longitudinal neuroanatomical changes determined by deformation-based morphometry in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2008 , 42, 19-27	7.9	121
164	Magnetization transfer and T2 relaxation components in tissue. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 490-6	4.4	120
163	Understanding pulsed magnetization transfer. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 903-12	5.6	117
162	Magnetic resonance thermometry for predicting thermal damage: an application of interstitial laser coagulation in an in vivo canine prostate model. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 873-83	4.4	117
161	Reptilian heart development and the molecular basis of cardiac chamber evolution. <i>Nature</i> , 2009 , 461, 95-8	50.4	116

160	Multiple-mouse MRI. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 158-67	4.4	114
159	Nonsusceptibility artifacts due to metallic objects in MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1995 , 5, 75-88	5.6	114
158	Elimination of transverse coherences in FLASH MRI. <i>Magnetic Resonance in Medicine</i> , 1988 , 8, 248-60	4.4	114
157	Comprehensive transthoracic cardiac imaging in mice using ultrasound biomicroscopy with anatomical confirmation by magnetic resonance imaging. <i>Physiological Genomics</i> , 2004 , 18, 232-44	3.6	109
156	MicroCT scanner performance and considerations for vascular specimen imaging. <i>Medical Physics</i> , 2004 , 31, 305-13	4.4	107
155	High-resolution MR imaging of human arteries. <i>Journal of Magnetic Resonance Imaging</i> , 1995 , 5, 93-100	5.6	102
154	Integrin-linked kinase expression is elevated in human cardiac hypertrophy and induces hypertrophy in transgenic mice. <i>Circulation</i> , 2006 , 114, 2271-9	16.7	101
153	Neuroanatomical differences between mouse strains as shown by high-resolution 3D MRI. <i>NeuroImage</i> , 2006 , 29, 99-105	7.9	101
152	Diffusional anisotropy of T2 components in bovine optic nerve. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 405-10	4.4	99
151	Anatomical phenotyping in the brain and skull of a mutant mouse by magnetic resonance imaging and computed tomography. <i>Physiological Genomics</i> , 2006 , 24, 154-62	3.6	99
150	Time and temperature dependence of MR parameters during thermal coagulation of ex vivo rabbit muscle. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 198-203	4.4	98
149	Cortical thickness measured from MRI in the YAC128 mouse model of Huntington's disease. <i>NeuroImage</i> , 2008 , 41, 243-51	7.9	98
148	Spin locking for magnetic resonance imaging with application to human breast. <i>Magnetic Resonance in Medicine</i> , 1989 , 12, 25-37	4.4	98
147	MRI phenotyping of genetically altered mice. <i>Methods in Molecular Biology</i> , 2011 , 711, 349-61	1.4	93
146	Genetic effects on cerebellar structure across mouse models of autism using a magnetic resonance imaging atlas. <i>Autism Research</i> , 2014 , 7, 124-37	5.1	91
145	High-grade glioma formation results from postnatal pten loss or mutant epidermal growth factor receptor expression in a transgenic mouse glioma model. <i>Cancer Research</i> , 2006 , 66, 7429-37	10.1	91
144	Altered palmitoylation and neuropathological deficits in mice lacking HIP14. <i>Human Molecular Genetics</i> , 2011 , 20, 3899-909	5.6	90
143	ptk7 mutant zebrafish models of congenital and idiopathic scoliosis implicate dysregulated Wnt signalling in disease. <i>Nature Communications</i> , 2014 , 5, 4777	17.4	89

142	Neuroanatomical analysis of the BTBR mouse model of autism using magnetic resonance imaging and diffusion tensor imaging. <i>NeuroImage</i> , 2013 , 70, 288-300	7.9	88
141	Proton-resonance frequency shift MR thermometry is affected by changes in the electrical conductivity of tissue. <i>Magnetic Resonance in Medicine</i> , 2000 , 43, 62-71	4.4	87
140	Preparation of fixed mouse brains for MRI. <i>NeuroImage</i> , 2012 , 60, 933-9	7.9	86
139	MR properties of rat sciatic nerve following trauma. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 415-20	4.4	86
138	p21-Activated kinases 1 and 3 control brain size through coordinating neuronal complexity and synaptic properties. <i>Molecular and Cellular Biology</i> , 2011 , 31, 388-403	4.8	85
137	Measurement of cerebral blood volume in mouse brain regions using micro-computed tomography. <i>NeuroImage</i> , 2009 , 47, 1312-8	7.9	85
136	Iroquois homeobox gene 3 establishes fast conduction in the cardiac His-Purkinje network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13576-81	11.5	84
135	Receiver operator characteristic (ROC) analysis without truth. <i>Medical Decision Making</i> , 1990 , 10, 24-9	2.5	84
134	A quantitative interpretation of IVIM measurements of vascular perfusion in the rat brain. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 464-9	4.4	81
133	Anatomical phenotyping in a mouse model of fragile X syndrome with magnetic resonance imaging. <i>NeuroImage</i> , 2010 , 53, 1023-9	7.9	80
132	In vivo multiple-mouse MRI at 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1311-6	4.4	79
131	MR imaging of blood vessels with an intravascular coil. <i>Journal of Magnetic Resonance Imaging</i> , 1992 , 2, 421-9	5.6	78
130	MR systems for image-guided therapy. <i>Journal of Magnetic Resonance Imaging</i> , 1998 , 8, 19-25	5.6	77
129	Dynamic scan-plane tracking using MR position monitoring. <i>Journal of Magnetic Resonance Imaging</i> , 1998 , 8, 924-32	5.6	75
128	Does IVIM measure classical perfusion?. <i>Magnetic Resonance in Medicine</i> , 1990 , 16, 470-5	4.4	75
127	Anisotropic stress orients remodelling of mammalian limb bud ectoderm. <i>Nature Cell Biology</i> , 2015 , 17, 569-79	23.4	74
126	Heat-source orientation and geometry dependence in proton-resonance frequency shift magnetic resonance thermometry. <i>Magnetic Resonance in Medicine</i> , 1999 , 41, 909-18	4.4	74
125	Water dynamics in human blood via combined measurements of T2 relaxation and diffusion in the presence of gadolinium. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 223-33	4.4	71

124	p73 regulates neurodegeneration and phospho-tau accumulation during aging and Alzheimer's disease. <i>Neuron</i> , 2008 , 59, 708-21	13.9	71
123	Intravascular MR imaging in a porcine animal model. <i>Magnetic Resonance in Medicine</i> , 1994 , 32, 224-9	4.4	65
122	Noninvasive ultrasonic measurement of regional and local pulse-wave velocity in mice. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 1368-75	3.5	64
121	Suppression of respiratory motion artifacts in magnetic resonance imaging. <i>Medical Physics</i> , 1986 , 13, 794-805	4.4	64
120	Pulmonary hypertension in adult Alk1 heterozygous mice due to oxidative stress. <i>Cardiovascular Research</i> , 2011 , 92, 375-84	9.9	62
119	Delayed myelination in a mouse model of fragile X syndrome. <i>Human Molecular Genetics</i> , 2013 , 22, 3920-30	3.0	61
118	K-space description for MR imaging of dynamic objects. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 422-8	4.4	61
117	Wanted dead or alive? The tradeoff between in-vivo versus ex-vivo MR brain imaging in the mouse. <i>Frontiers in Neuroinformatics</i> , 2012 , 6, 6	3.9	60
116	Correlation between local hemodynamics and lesion distribution in a novel aortic regurgitation murine model of atherosclerosis. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1414-22	4.7	60
115	Brain Tumor Surgery with the Toronto Open Magnetic Resonance Imaging System: Preliminary Results for 36 Patients and Analysis of Advantages, Disadvantages, and Future Prospects. <i>Neurosurgery</i> , 2000 , 46, 900-909	3.2	58
114	Natural history of disease in the YAC128 mouse reveals a discrete signature of pathology in Huntington disease. <i>Neurobiology of Disease</i> , 2011 , 43, 257-65	7.5	56
113	MR imaging of the normal knee. <i>Journal of Computer Assisted Tomography</i> , 1984 , 8, 1147-54	2.2	56
112	On the transverse relaxation rate enhancement induced by diffusion of spins through inhomogeneous fields. <i>Magnetic Resonance in Medicine</i> , 1991 , 17, 348-56	4.4	55
111	Truncation artifacts in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 1985 , 2, 517-26	4.4	54
110	Contrast, resolution, and detectability in MR imaging. <i>Journal of Computer Assisted Tomography</i> , 1991 , 15, 297-303	2.2	53
109	Priming of hypoxia-inducible factor by neuronal nitric oxide synthase is essential for adaptive responses to severe anemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17544-9	11.5	52
108	Bloomsbury report on mouse embryo phenotyping: recommendations from the IMPC workshop on embryonic lethal screening. <i>DMM Disease Models and Mechanisms</i> , 2013 , 6, 571-9	4.1	51
107	The effects of chemotherapy on cognitive function in a mouse model: a prospective study. <i>Clinical Cancer Research</i> , 2012 , 18, 3112-21	12.9	50

106	Proximal cerebral arteries develop myogenic responsiveness in heart failure via tumor necrosis factor- β -dependent activation of sphingosine-1-phosphate signaling. <i>Circulation</i> , 2012 , 126, 196-206	16.7	50
105	Tbx5-dependent pathway regulating diastolic function in congenital heart disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5519-24	11.5	50
104	In vivo magnetic resonance imaging and semiautomated image analysis extend the brain phenotype for cdf/cdf mice. <i>Journal of Neuroscience</i> , 2006 , 26, 4455-9	6.6	50
103	Design and implementation of a custom built optical projection tomography system. <i>PLoS ONE</i> , 2013 , 8, e73491	3.7	50
102	Structural stabilization of tissue for embryo phenotyping using micro-CT with iodine staining. <i>PLoS ONE</i> , 2013 , 8, e84321	3.7	49
101	A flexible magnetization transfer line shape derived from tissue experimental data. <i>Magnetic Resonance in Medicine</i> , 1997 , 37, 866-71	4.4	49
100	Loss of the ciliary kinase Nek8 causes left-right asymmetry defects. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 100-12	12.7	46
99	Brain abnormalities in a Neuroligin3 R451C knockin mouse model associated with autism. <i>Autism Research</i> , 2011 , 4, 368-76	5.1	45
98	Whole-brain mapping of behaviourally induced neural activation in mice. <i>Brain Structure and Function</i> , 2015 , 220, 2043-57	4	44
97	Partitioning k-space for cylindrical three-dimensional rapid acquisition with relaxation enhancement imaging in the mouse brain. <i>NMR in Biomedicine</i> , 2017 , 30, e3802	4.4	44
96	Rotating frame RF current density imaging. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 355-69	4.4	44
95	Ultrasound-guided left-ventricular catheterization: a novel method of whole mouse perfusion for microimaging. <i>Laboratory Investigation</i> , 2004 , 84, 385-9	5.9	43
94	Spontaneous adult-onset pulmonary arterial hypertension attributable to increased endothelial oxidative stress in a murine model of hereditary hemorrhagic telangiectasia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 509-17	9.4	40
93	Angiopietin-1 causes reversible degradation of the portal microcirculation in mice: implications for treatment of liver disease. <i>American Journal of Pathology</i> , 2004 , 165, 889-99	5.8	40
92	Gestational ketogenic diet programs brain structure and susceptibility to depression & anxiety in the adult mouse offspring. <i>Brain and Behavior</i> , 2015 , 5, e00300	3.4	39
91	Differential HIF and NOS responses to acute anemia: defining organ-specific hemoglobin thresholds for tissue hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R13-25	3.2	39
90	Pulsed magnetization transfer imaging: evaluation of technique. <i>Radiology</i> , 1999 , 212, 903-10	20.5	39
89	A new approach to CT pixel-based photon dose calculations in heterogeneous media. <i>Medical Physics</i> , 1983 , 10, 199-208	4.4	39

88	Integrated analysis of diffusion and relaxation of water in blood. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 79-88	4.4	38
87	Fast spin-echo for multiple mouse magnetic resonance phenotyping. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 532-7	4.4	38
86	Neurobiological Mechanisms of Chemotherapy-induced Cognitive Impairment in a Transgenic Model of Breast Cancer. <i>Neuroscience</i> , 2018 , 369, 51-65	3.9	38
85	Mapping registration sensitivity in MR mouse brain images. <i>NeuroImage</i> , 2013 , 82, 226-36	7.9	37
84	Nestin is not essential for development of the CNS but required for dispersion of acetylcholine receptor clusters at the area of neuromuscular junctions. <i>Journal of Neuroscience</i> , 2011 , 31, 11547-52	6.6	37
83	Mouse behavioral mutants have neuroimaging abnormalities. <i>Human Brain Mapping</i> , 2007 , 28, 567-75	5.9	37
82	Continuous distributions of NMR relaxation times applied to tumors before and after therapy with X-rays and cyclophosphamide. <i>Magnetic Resonance in Medicine</i> , 1988 , 6, 24-36	4.4	37
81	Neuroanatomical Assessment of the Integrin B Mouse Model Related to Autism and the Serotonin System Using High Resolution MRI. <i>Frontiers in Psychiatry</i> , 2012 , 3, 37	5	36
80	MRI monitoring of interstitial microwave-induced heating and thermal lesions in rabbit brain in vivo. <i>Journal of Magnetic Resonance Imaging</i> , 1998 , 8, 128-35	5.6	36
79	Automated pipeline for anatomical phenotyping of mouse embryos using micro-CT. <i>Development (Cambridge)</i> , 2014 , 141, 2533-41	6.6	35
78	Cerebral asymmetries in 12-week-old C57Bl/6J mice measured by magnetic resonance imaging. <i>NeuroImage</i> , 2010 , 50, 409-15	7.9	35
77	MR technology for biological studies in mice. <i>NMR in Biomedicine</i> , 2007 , 20, 291-303	4.4	35
76	A coming of age: advanced imaging technologies for characterising the developing mouse. <i>Trends in Genetics</i> , 2013 , 29, 700-11	8.5	34
75	A method for 3D immunostaining and optical imaging of the mouse brain demonstrated in neural progenitor cells. <i>PLoS ONE</i> , 2013 , 8, e72039	3.7	34
74	The magnetic field dependence of the breathing artifact. <i>Magnetic Resonance Imaging</i> , 1986 , 4, 387-392	3.3	31
73	Oscillatory cortical forces promote three dimensional cell intercalations that shape the murine mandibular arch. <i>Nature Communications</i> , 2019 , 10, 1703	17.4	29
72	Aortic regurgitation dramatically alters the distribution of atherosclerotic lesions and enhances atherogenesis in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1181-8	9.4	29
71	Systems biology through mouse imaging centers: experience and new directions. <i>Annual Review of Biomedical Engineering</i> , 2010 , 12, 143-66	12	29

70	Electrical remodelling precedes heart failure in an endothelin-1-induced model of cardiomyopathy. <i>Cardiovascular Research</i> , 2011 , 89, 623-33	9.9	29
69	Brain damage from 125I brachytherapy evaluated by MR imaging, a blood-brain barrier tracer, and light and electron microscopy in a rat model. <i>Journal of Neurosurgery</i> , 1990 , 73, 585-93	3.2	29
68	Complex interplay between brain function and structure during cerebral amyloidosis in APP transgenic mouse strains revealed by multi-parametric MRI comparison. <i>NeuroImage</i> , 2016 , 134, 1-11	7.9	29
67	Deficiency of Natriuretic Peptide Receptor 2 Promotes Bicuspid Aortic Valves, Aortic Valve Disease, Left Ventricular Dysfunction, and Ascending Aortic Dilatations in Mice. <i>Circulation Research</i> , 2018 , 122, 405-416	15.7	28
66	High-resolution longitudinal screening with magnetic resonance imaging in a murine brain cancer model. <i>Neoplasia</i> , 2003 , 5, 546-54	6.4	28
65	In vivo measurements of NMR relaxation times. <i>Magnetic Resonance in Medicine</i> , 1985 , 2, 1-13	4.4	28
64	Suppressor of fused controls mid-hindbrain patterning and cerebellar morphogenesis via GLI3 repressor. <i>Journal of Neuroscience</i> , 2011 , 31, 1825-36	6.6	27
63	Dynamic range requirements for MRI. <i>Concepts in Magnetic Resonance Part B</i> , 2005 , 26B, 28-35	2.3	27
62	Motion artifact reduction with three-point ghost phase cancellation. <i>Journal of Magnetic Resonance Imaging</i> , 1991 , 1, 633-42	5.6	27
61	4D atlas of the mouse embryo for precise morphological staging. <i>Development (Cambridge)</i> , 2015 , 142, 3583-91	6.6	26
60	Imaging of murine brain tumors using a 1.5 Tesla clinical MRI system. <i>Canadian Journal of Neurological Sciences</i> , 2003 , 30, 326-32	1	26
59	Multiple-mouse neuroanatomical magnetic resonance imaging. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	25
58	Neuroanatomical Phenotypes Are Consistent With Autism-Like Behavioral Phenotypes in the 15q11-13 Duplication Mouse Model. <i>Autism Research</i> , 2015 , 8, 545-55	5.1	24
57	ENU-induced mutation in the DNA-binding domain of KLF3 reveals important roles for KLF3 in cardiovascular development and function in mice. <i>PLoS Genetics</i> , 2013 , 9, e1003612	6	24
56	Reconsideration of the power-law (Batho) equation for inhomogeneity corrections. <i>Medical Physics</i> , 1982 , 9, 521-30	4.4	24
55	MRI to Assess Neurological Function. <i>Current Protocols in Mouse Biology</i> , 2018 , 8, e44	1.1	23
54	Acoustic and kinetic behaviour of definity in mice exposed to high frequency ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 296-307	3.5	22
53	Neuroanatomical phenotyping of the mouse brain with three-dimensional autofluorescence imaging. <i>Physiological Genomics</i> , 2012 , 44, 778-85	3.6	21

52	TRPV1 gates tissue access and sustains pathogenicity in autoimmune encephalitis. <i>Molecular Medicine</i> , 2013 , 19, 149-59	6.2	21
51	Genes into geometry: imaging for mouse development in 3D. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 638-46	4.9	20
50	Two-point interference method for suppression of ghost artifacts due to motion. <i>Journal of Magnetic Resonance Imaging</i> , 1993 , 3, 900-6	5.6	20
49	Vertebrate intersectin1 is repurposed to facilitate cortical midline connectivity and higher order cognition. <i>Journal of Neuroscience</i> , 2013 , 33, 4055-65	6.6	19
48	Cardiac-enriched BAF chromatin-remodeling complex subunit Baf60c regulates gene expression programs essential for heart development and function. <i>Biology Open</i> , 2018 , 7,	2.2	19
47	3D imaging, registration, and analysis of the early mouse embryonic vasculature. <i>Developmental Dynamics</i> , 2013 , 242, 527-38	2.9	18
46	Optimization of the SNR-resolution tradeoff for registration of magnetic resonance images. <i>Human Brain Mapping</i> , 2008 , 29, 1147-58	5.9	18
45	Optimization of MR protocols: a statistical decision analysis approach. <i>Magnetic Resonance in Medicine</i> , 1988 , 6, 314-33	4.4	18
44	Cerebellar abnormalities in purine nucleoside phosphorylase deficient mice. <i>Neurobiology of Disease</i> , 2012 , 47, 201-9	7.5	17
43	Mouse models of 17q21.31 microdeletion and microduplication syndromes highlight the importance of <i>Kansl1</i> for cognition. <i>PLoS Genetics</i> , 2017 , 13, e1006886	6	15
42	Motion artifacts in fast spin-echo imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1994 , 4, 577-84	5.6	15
41	MR evaluation of cervical cancer in hysterectomy specimens: correlation of quantitative T2 measurement and histology. <i>Journal of Magnetic Resonance Imaging</i> , 1994 , 4, 779-86	5.6	15
40	Robust method for 3D arterial spin labeling in mice. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 98-106	4.4	14
39	Problems with organic materials for magnetic resonance imaging phantoms. <i>Medical Physics</i> , 1988 , 15, 61-3	4.4	14
38	Variability of brain anatomy for three common mouse strains. <i>NeuroImage</i> , 2016 , 142, 656-662	7.9	14
37	Small animal imaging with a clinical magnetic resonance imager. <i>Magnetic Resonance in Medicine</i> , 1987 , 4, 61-6	4.4	13
36	Activated Hedgehog-Gli Signaling Causes Congenital Ureteropelvic Junction Obstruction. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 532-544	12.7	13
35	A new way of averaging with applications to MRI. <i>Medical Physics</i> , 1996 , 23, 109-13	4.4	12

34	Effects of repeated adolescent stress and serotonin transporter gene partial knockout in mice on behaviors and brain structures relevant to major depression. <i>Frontiers in Behavioral Neuroscience</i> , 2013 , 7, 215	3.5	11
33	Phase constrained encoding (PACE): a technique for MRI in large static field inhomogeneities. <i>Magnetic Resonance in Medicine</i> , 1995 , 33, 497-505	4.4	11
32	P63 expression plays a role in developmental rate, embryo size, and local morphogenesis. <i>Developmental Dynamics</i> , 2018 , 247, 779-787	2.9	10
31	Analysis of neuroanatomical differences in mice with genetically modified serotonin transporters assessed by structural magnetic resonance imaging. <i>Molecular Autism</i> , 2018 , 9, 24	6.5	10
30	If the skull fits: magnetic resonance imaging and microcomputed tomography for combined analysis of brain and skull phenotypes in the mouse. <i>Physiological Genomics</i> , 2012 , 44, 992-1002	3.6	10
29	Identification of the periprostatic venous plexus by MR imaging. <i>Journal of Computer Assisted Tomography</i> , 1991 , 15, 265-8	2.2	10
28	High quality zoomed MR images. <i>Journal of Computer Assisted Tomography</i> , 1989 , 13, 179-81	2.2	10
27	The comparative survival of clonogenic cells of a murine epithelioma irradiated in vivo with 250 kVp X rays, 60Co gamma rays, or negative pions produced by the cyclotron at TRIUMF. <i>Radiology</i> , 1979 , 133, 501-5	20.5	10
26	Morphological and functional evaluation of murine heterotopic cardiac grafts using ultrasound biomicroscopy. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 870-9	3.5	9
25	Analysis of discrete T2 components of NMR relaxation for aqueous solutions in hollow fiber capillaries. <i>Magnetic Resonance in Medicine</i> , 1994 , 31, 611-8	4.4	9
24	The effect of automated landmark identification on morphometric analyses. <i>Journal of Anatomy</i> , 2019 , 234, 917-935	2.9	8
23	Progressive neuroanatomical changes caused by Grin1 loss-of-function mutation. <i>Neurobiology of Disease</i> , 2019 , 132, 104527	7.5	8
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