

Gustav J Strijkers

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.

250
papers

9,161
citations

53
h-index

87
g-index

275
ext. papers

10,033
ext. citations

5.3
avg, IF

5.84
L-index

#	Paper	IF	Citations
250	Lipid-based nanoparticles for contrast-enhanced MRI and molecular imaging. <i>NMR in Biomedicine</i> , 2006 , 19, 142-64	4.4	468
249	Quantum dots with a paramagnetic coating as a bimodal molecular imaging probe. <i>Nano Letters</i> , 2006 , 6, 1-6	11.5	439
248	Determination of the spin polarization of half-metallic CrO(2) by point contact Andreev reflection. <i>Physical Review Letters</i> , 2001 , 86, 5585-8	7.4	402
247	MR molecular imaging and fluorescence microscopy for identification of activated tumor endothelium using a bimodal lipidic nanoparticle. <i>FASEB Journal</i> , 2005 , 19, 2008-10	0.9	234
246	Nanoparticulate assemblies of amphiphiles and diagnostically active materials for multimodality imaging. <i>Accounts of Chemical Research</i> , 2009 , 42, 904-14	24.3	223
245	MRI contrast agents: current status and future perspectives. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2007 , 7, 291-305	2.2	204
244	A liposomal system for contrast-enhanced magnetic resonance imaging of molecular targets. <i>Bioconjugate Chemistry</i> , 2004 , 15, 799-806	6.3	198
243	Chitosan-based systems for molecular imaging. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 42-58	18.5	177
242	Magnetic and fluorescent nanoparticles for multimodality imaging. <i>Nanomedicine</i> , 2007 , 2, 307-24	5.6	150
241	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. <i>Science Advances</i> , 2015 , 1,	14.3	137
240	Determination of mouse skeletal muscle architecture using three-dimensional diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1333-40	4.4	134
239	Paramagnetic lipid-coated silica nanoparticles with a fluorescent quantum dot core: a new contrast agent platform for multimodality imaging. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2471-9	6.3	133
238	Role of ischemia and deformation in the onset of compression-induced deep tissue injury: MRI-based studies in a rat model. <i>Journal of Applied Physiology</i> , 2007 , 102, 2002-11	3.7	131
237	Annexin A5-conjugated quantum dots with a paramagnetic lipidic coating for the multimodal detection of apoptotic cells. <i>Bioconjugate Chemistry</i> , 2006 , 17, 865-8	6.3	131
236	Synergistic targeting of α v β 3 integrin and galectin-1 with heteromultivalent paramagnetic liposomes for combined MR imaging and treatment of angiogenesis. <i>Nano Letters</i> , 2010 , 10, 52-8	11.5	126
235	Molecular imaging of tumor angiogenesis using α v β 3-integrin targeted multimodal quantum dots. <i>Angiogenesis</i> , 2009 , 12, 17-24	10.6	121
234	Molecular imaging of macrophages in atherosclerotic plaques using bimodal PEG-micelles. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1164-70	4.4	120

233	Relaxivity of liposomal paramagnetic MRI contrast agents. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2005 , 18, 186-92	2.8	117
232	Enhanced giant magnetoresistance in spin-valves sandwiched between insulating NiO. <i>Physical Review B</i> , 1996 , 53, 9108-9114	3.3	116
231	Annexin A5-functionalized bimodal lipid-based contrast agents for the detection of apoptosis. <i>Bioconjugate Chemistry</i> , 2006 , 17, 741-9	6.3	108
230	Dynamic MRS and MRI of skeletal muscle function and biomechanics. <i>NMR in Biomedicine</i> , 2006 , 19, 927-54	4.4	103
229	Techniques and applications of skeletal muscle diffusion tensor imaging: A review. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 773-88	5.6	96
228	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. <i>Immunity</i> , 2018 , 49, 819-828.e6	32.3	95
227	DTI of human skeletal muscle: the effects of diffusion encoding parameters, signal-to-noise ratio and T2 on tensor indices and fiber tracts. <i>NMR in Biomedicine</i> , 2013 , 26, 1339-52	4.4	94
226	DTI-based assessment of ischemia-reperfusion in mouse skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 272-81	4.4	91
225	Compression-induced deep tissue injury examined with magnetic resonance imaging and histology. <i>Journal of Applied Physiology</i> , 2006 , 100, 1946-54	3.7	91
224	The effects of deformation, ischemia, and reperfusion on the development of muscle damage during prolonged loading. <i>Journal of Applied Physiology</i> , 2011 , 111, 1168-77	3.7	89
223	Comparison between prospective and retrospective triggering for mouse cardiac MRI. <i>NMR in Biomedicine</i> , 2007 , 20, 439-47	4.4	89
222	Compression-induced damage and internal tissue strains are related. <i>Journal of Biomechanics</i> , 2008 , 41, 3399-404	2.9	89
221	Muscle changes detected with diffusion-tensor imaging after long-distance running. <i>Radiology</i> , 2015 , 274, 548-62	20.5	88
220	Skeletal muscle degeneration and regeneration after femoral artery ligation in mice: monitoring with diffusion MR imaging. <i>Radiology</i> , 2007 , 243, 413-21	20.5	88
219	Diffusion-tensor MRI reveals the complex muscle architecture of the human forearm. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 237-48	5.6	87
218	Annexin A5-functionalized bimodal nanoparticles for MRI and fluorescence imaging of atherosclerotic plaques. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1794-803	6.3	87
217	Diffusion tensor imaging of left ventricular remodeling in response to myocardial infarction in the mouse. <i>NMR in Biomedicine</i> , 2009 , 22, 182-90	4.4	87
216	A high relaxivity Gd(III)DOTA-DSPE-based liposomal contrast agent for magnetic resonance imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 72, 397-404	5.7	85

215	Paramagnetic and fluorescent liposomes for target-specific imaging and therapy of tumor angiogenesis. <i>Angiogenesis</i> , 2010 , 13, 161-73	10.6	84
214	Accelerated self-gated UTE of murine heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
213	Surface modification of PLGA nanospheres with Gd-DTPA and Gd-DOTA for high-relaxivity MRI contrast agents. <i>Biomaterials</i> , 2010 , 31, 8716-23	15.6	77
212	Early in vivo assessment of angiostatic therapy efficacy by molecular MRI. <i>FASEB Journal</i> , 2007 , 21, 378-83	3.9	76
211	Paramagnetic liposomes for molecular MRI and MRI-guided drug delivery. <i>NMR in Biomedicine</i> , 2013 , 26, 728-44	4.4	72
210	Dual-targeting of $\alpha_5\beta_1$ and galectin-1 improves the specificity of paramagnetic/fluorescent liposomes to tumor endothelium in vivo. <i>Journal of Controlled Release</i> , 2012 , 158, 207-14	11.7	71
209	Three-compartment T1 relaxation model for intracellular paramagnetic contrast agents. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1049-58	4.4	70
208	Cellular compartmentalization of internalized paramagnetic liposomes strongly influences both T1 and T2 relaxivity. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1022-32	4.4	69
207	In vivo characterization of a new abdominal aortic aneurysm mouse model with conventional and molecular magnetic resonance imaging. <i>Journal of the American College of Cardiology</i> , 2011 , 58, 2522-30	15.1	67
206	Magnetic quantum dots for multimodal imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009 , 1, 475-91	9.2	63
205	Temporal effects of mechanical loading on deformation-induced damage in skeletal muscle tissue. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2577-87	4.7	60
204	Fast progression of recombinant human myelin/oligodendrocyte glycoprotein (MOG)-induced experimental autoimmune encephalomyelitis in marmosets is associated with the activation of MOG34-56-specific cytotoxic T cells. <i>Journal of Immunology</i> , 2008 , 180, 1326-37	5.3	60
203	Distribution of lipid-based nanoparticles to infarcted myocardium with potential application for MRI-monitored drug delivery. <i>Journal of Controlled Release</i> , 2012 , 162, 276-85	11.7	56
202	Formation of nonmagnetic $\text{cHe1}\beta\text{Si}$ in antiferromagnetically coupled epitaxial Fe/Si/Fe. <i>Physical Review B</i> , 1999 , 60, 9583-9587	3.3	56
201	Targeting of ICAM-1 on vascular endothelium under static and shear stress conditions using a liposomal Gd-based MRI contrast agent. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 25	9.4	55
200	Feasibility of diffusion tensor imaging (DTI) with fibre tractography of the normal female pelvic floor. <i>European Radiology</i> , 2011 , 21, 1243-9	8	54
199	Three-dimensional T1 mapping of the mouse heart using variable flip angle steady-state MR imaging. <i>NMR in Biomedicine</i> , 2011 , 24, 154-62	4.4	53
198	Liposome-enhanced MRI of neointimal lesions in the ApoE-KO mouse. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1170-4	4.4	53

197	Heart wall myofibers are arranged in minimal surfaces to optimize organ function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9248-53	11.5	52
196	Iron oxide nanoparticle-micelles (ION-micelles) for sensitive (molecular) magnetic particle imaging and magnetic resonance imaging. <i>PLoS ONE</i> , 2013 , 8, e57335	3.7	51
195	Paramagnetic self-assembled nanoparticles as supramolecular MRI contrast agents. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 356-61	3.2	50
194	Anti-tumor activity of liposomal glucocorticoids: The relevance of liposome-mediated drug delivery, intratumoral localization and systemic activity. <i>Journal of Controlled Release</i> , 2011 , 151, 10-7	11.7	50
193	MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model. <i>Journal of Controlled Release</i> , 2012 , 161, 772-80	11.7	46
192	Reproducibility of diffusion tensor imaging in human forearm muscles at 3.0 T in a clinical setting. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1182-90	4.4	44
191	Skeletal muscle diffusion tensor-MRI fiber tracking: rationale, data acquisition and analysis methods, applications and future directions. <i>NMR in Biomedicine</i> , 2017 , 30, e3563	4.4	43
190	MRI of ICAM-1 upregulation after stroke: the importance of choosing the appropriate target-specific particulate contrast agent. <i>Molecular Imaging and Biology</i> , 2013 , 15, 411-22	3.8	43
189	Smoothelin-B deficiency results in reduced arterial contractility, hypertension, and cardiac hypertrophy in mice. <i>Circulation</i> , 2008 , 118, 828-36	16.7	43
188	Quantification of left ventricular volumes and ejection fraction in mice using PET, compared with MRI. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 132-8	8.9	41
187	Mouse myocardial first-pass perfusion MR imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1658-63	4.4	41
186	Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2015 , 17, 137	5.7	39
185	Morphology, binding behavior and MR-properties of paramagnetic collagen-binding liposomes. <i>Contrast Media and Molecular Imaging</i> , 2009 , 4, 81-8	3.2	39
184	A comparative analysis of the collagen architecture in the carotid artery: second harmonic generation versus diffusion tensor imaging. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 426, 54-8	3.4	36
183	Quantitative (1)H MRI, (19)F MRI, and (19)F MRS of cell-internalized perfluorocarbon paramagnetic nanoparticles. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 19-27	3.2	36
182	MRI methods for the evaluation of high intensity focused ultrasound tumor treatment: Current status and future needs. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 302-17	4.4	35
181	MiR-155 inhibits cell migration of human cardiomyocyte progenitor cells (hCMPCs) via targeting of MMP-16. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 2379-86	5.6	34
180	Quantitative MRI in early intervertebral disc degeneration: T1rho correlates better than T2 and ADC with biomechanics, histology and matrix content. <i>PLoS ONE</i> , 2018 , 13, e0191442	3.7	33

179	Evaluation of manual and automatic segmentation of the mouse heart from CINE MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 86-93	5.6	33
178	A new MR-compatible loading device to study in vivo muscle damage development in rats due to compressive loading. <i>Medical Engineering and Physics</i> , 2006 , 28, 331-8	2.4	33
177	Exploration of New Contrasts, Targets, and MR Imaging and Spectroscopy Techniques for Neuromuscular Disease - A Workshop Report of Working Group 3 of the Biomedicine and Molecular Biosciences COST Action BM1304 MYO-MRI. <i>Journal of Neuromuscular Diseases</i> , 2019 , 6, 1-30	5	32
176	Quantum dots for multimodal molecular imaging of angiogenesis. <i>Angiogenesis</i> , 2010 , 13, 131-4	10.6	31
175	Improved magnetic resonance molecular imaging of tumor angiogenesis by avidin-induced clearance of nonbound bimodal liposomes. <i>Neoplasia</i> , 2008 , 10, 1459-69	6.4	30
174	Data-efficient deep learning of radiological image data for outcome prediction after endovascular treatment of patients with acute ischemic stroke. <i>Computers in Biology and Medicine</i> , 2019 , 115, 103516 ⁷		28
173	Contrast enhancement by differently sized paramagnetic MRI contrast agents in mice with two phenotypes of atherosclerotic plaque. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 35-45	3.2	28
172	Quantitative T2 mapping of the mouse heart by segmented MLEV phase-cycled T2 preparation. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 409-17	4.4	27
171	Evaluation of iron oxide nanoparticle micelles for magnetic particle imaging (MPI) of thrombosis. <i>PLoS ONE</i> , 2015 , 10, e0119257	3.7	27
170	Ischemia-reperfusion injury in rat skeletal muscle assessed with T2-weighted and dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 528-37	4.4	27
169	MRI-determined carotid artery flow velocities and wall shear stress in a mouse model of vulnerable and stable atherosclerotic plaque. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010 , 23, 77-84	2.8	27
168	Machine learning improves prediction of delayed cerebral ischemia in patients with subarachnoid hemorrhage. <i>Journal of NeuroInterventional Surgery</i> , 2019 , 11, 497-502	7.8	27
167	The evolution of collagen fiber orientation in engineered cardiovascular tissues visualized by diffusion tensor imaging. <i>PLoS ONE</i> , 2015 , 10, e0127847	3.7	26
166	Evaluation of the female pelvic floor in pelvic organ prolapse using 3.0-Tesla diffusion tensor imaging and fibre tractography. <i>European Radiology</i> , 2012 , 22, 2806-13	8	26
165	Phenotyping of left and right ventricular function in mouse models of compensated hypertrophy and heart failure with cardiac MRI. <i>PLoS ONE</i> , 2013 , 8, e55424	3.7	26
164	Specular reflection in spin valves bounded by NiO layers. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 948-953		26
163	Diagnostic accuracy of MRI and ultrasound in chronic immune-mediated neuropathies. <i>Neurology</i> , 2020 , 94, e62-e74	6.5	26
162	Molecular MRI of Inflammation in Atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , 2012 , 5, 60-68 ⁷		25

161	Photochemical activation of endosomal escape of MRI-Gd-agents in tumor cells. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 212-9	4.4	25
160	Relaxometric studies of gadolinium-functionalized perfluorocarbon nanoparticles for MR imaging. <i>Contrast Media and Molecular Imaging</i> , 2014 , 9, 83-91	3.2	24
159	Internalization of paramagnetic phosphatidylserine-containing liposomes by macrophages. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 37	9.4	24
158	Kinetics of avidin-induced clearance of biotinylated bimodal liposomes for improved MR molecular imaging. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1444-56	4.4	24
157	MRI-guided immunotherapy development for multiple sclerosis in a primate. <i>Drug Discovery Today</i> , 2006 , 11, 58-66	8.8	24
156	Quantitative first-pass perfusion MRI of the mouse myocardium. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1735-44	4.4	23
155	Magnetic resonance imaging of regional cardiac function in the mouse. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004 , 17, 170-8	2.8	23
154	Small animal cardiovascular MR imaging and spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2015 , 88-89, 1-47	10.4	22
153	Acute cellular and vascular responses to photodynamic therapy using EGFR-targeted nanobody-photosensitizer conjugates studied with intravital optical imaging and magnetic resonance imaging. <i>Theranostics</i> , 2020 , 10, 2436-2452	12.1	22
152	Passive targeting of lipid-based nanoparticles to mouse cardiac ischemia-reperfusion injury. <i>Contrast Media and Molecular Imaging</i> , 2013 , 8, 117-26	3.2	22
151	Multiparametric MRI analysis for the identification of high intensity focused ultrasound-treated tumor tissue. <i>PLoS ONE</i> , 2014 , 9, e99936	3.7	22
150	Vessel wall characterization using quantitative MRI: what's in a number?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 201-222	2.8	22
149	Short- and long-term limbic abnormalities after experimental febrile seizures. <i>Neurobiology of Disease</i> , 2008 , 32, 293-301	7.5	21
148	Sterilization and strength of 70/30 polylactide cages: e-beam versus ethylene oxide. <i>Spine</i> , 2007 , 32, 742-7	3.3	20
147	Magnetic resonance molecular imaging contrast agents and their application in atherosclerosis. <i>Topics in Magnetic Resonance Imaging</i> , 2007 , 18, 409-17	2.3	20
146	Probing myeloid cell dynamics in ischaemic heart disease by nanotracer hot-spot imaging. <i>Nature Nanotechnology</i> , 2020 , 15, 398-405	28.7	20
145	A novel diffusion-tensor MRI approach for skeletal muscle fascicle length measurements. <i>Physiological Reports</i> , 2016 , 4, e13012	2.6	19
144	High frame rate retrospectively triggered Cine MRI for assessment of murine diastolic function. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 648-56	4.4	19

143	3D Fiber Orientation in Atherosclerotic Carotid Plaques. <i>Journal of Structural Biology</i> , 2017 , 200, 28-35	3.4	19
142	The binding of CNA35 contrast agents to collagen fibrils. <i>Chemical Communications</i> , 2011 , 47, 1503-5	5.8	19
141	Diffusion-prepared stimulated-echo turbo spin echo (DPsti-TSE): An eddy current-insensitive sequence for three-dimensional high-resolution and undistorted diffusion-weighted imaging. <i>NMR in Biomedicine</i> , 2017 , 30, e3719	4.4	18
140	Emerging Magnetic Resonance Imaging Techniques for Atherosclerosis Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 841-849	9.4	18
139	Highly accelerated 4D flow cardiovascular magnetic resonance using a pseudo-spiral Cartesian acquisition and compressed sensing reconstruction for carotid flow and wall shear stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 7	6.9	18
138	Molecular MR Imaging of Collagen in Mouse Atherosclerosis by Using Paramagnetic CNA35 Micelles. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2115-2125	2.3	18
137	Magneto-resistance anisotropy of a Bi antidot array. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2067-2069		18
136	Positioning error of custom 3D-printed surgical guides for the radius: influence of fitting location and guide design. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 507-518	3.9	18
135	Quantitative T ₂ * assessment of acute and chronic myocardial ischemia/reperfusion injury in mice. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012 , 25, 369-79	2.8	17
134	The use of high-resolution magnetic resonance imaging for monitoring interbody fusion and bioabsorbable cages: an ex vivo pilot study. <i>Neurosurgical Focus</i> , 2004 , 16, E3	4.2	17
133	Rapid T quantification from high resolution 3D data with model-based reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2072-2089	4.4	17
132	Statins Promote Cardiac Infarct Healing by Modulating Endothelial Barrier Function Revealed by Contrast-Enhanced Magnetic Resonance Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 186-194	9.4	17
131	Contrast-enhanced MRI of murine myocardial infarction - part II. <i>NMR in Biomedicine</i> , 2012 , 25, 969-84	4.4	16
130	Contrast-enhanced MRI of murine myocardial infarction - part I. <i>NMR in Biomedicine</i> , 2012 , 25, 953-68	4.4	16
129	Safety of intradiscal injection and biocompatibility of polyester amide microspheres in a canine model predisposed to intervertebral disc degeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 707-714	3.5	16
128	Human Cardiac P-MR Spectroscopy at 3 Tesla Cannot Detect Failing Myocardial Energy Homeostasis during Exercise. <i>Frontiers in Physiology</i> , 2017 , 8, 939	4.6	16
127	Regional contrast agent quantification in a mouse model of myocardial infarction using 3D cardiac T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 56	6.9	16
126	Crystalline and Interfacial Structure of Ultrathin Co Layers Grown on Pd(111): A ⁵⁹ Co NMR Study. <i>Physica Status Solidi A</i> , 2002 , 189, 701-704		16

125	An iterative sparse deconvolution method for simultaneous multicolor F-MRI of multiple contrast agents. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 228-239	4.4	16
124	Metformin and sulodexide restore cardiac microvascular perfusion capacity in diet-induced obese rats. <i>Cardiovascular Diabetology</i> , 2017 , 16, 47	8.7	15
123	Early impairment of coronary microvascular perfusion capacity in rats on a high fat diet. <i>Cardiovascular Diabetology</i> , 2015 , 14, 150	8.7	15
122	Internalization of annexin A5-functionalized iron oxide particles by apoptotic Jurkat cells. <i>Contrast Media and Molecular Imaging</i> , 2009 , 4, 24-32	3.2	15
121	An advanced magnetic resonance imaging perspective on the etiology of deep tissue injury. <i>Journal of Applied Physiology</i> , 2018 , 124, 1580-1596	3.7	14
120	Amide proton transfer imaging of high intensity focused ultrasound-treated tumor tissue. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1113-22	4.4	14
119	Multimodal liposomes for SPECT/MR imaging as a tool for in situ relaxivity measurements. <i>Contrast Media and Molecular Imaging</i> , 2012 , 7, 68-75	3.2	14
118	In vivo mouse myocardial (31)P MRS using three-dimensional image-selected in vivo spectroscopy (3D ISIS): technical considerations and biochemical validations. <i>NMR in Biomedicine</i> , 2015 , 28, 1218-27	4.4	14
117	Assessment of Myocardial Fibrosis in Mice Using a T2*-Weighted 3D Radial Magnetic Resonance Imaging Sequence. <i>PLoS ONE</i> , 2015 , 10, e0129899	3.7	14
116	Accelerated high-frame-rate mouse heart cine-MRI using compressed sensing reconstruction. <i>NMR in Biomedicine</i> , 2013 , 26, 451-7	4.4	14
115	Embryonic cardiomyocyte, but not autologous stem cell transplantation, restricts infarct expansion, enhances ventricular function, and improves long-term survival. <i>PLoS ONE</i> , 2013 , 8, e61510	3.7	14
114	Implantation of a carotid cuff for triggering shear-stress induced atherosclerosis in mice. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	14
113	Regional assessment of carotid artery pulse wave velocity using compressed sensing accelerated high temporal resolution 2D CINE phase contrast cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 86	6.9	14
112	Breast magnetic resonance elastography: a review of clinical work and future perspectives. <i>NMR in Biomedicine</i> , 2018 , 31, e3932	4.4	14
111	Biomechanical considerations in the design of patient-specific fixation plates for the distal radius. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1099-1107	3.1	13
110	Assessment of passive muscle elongation using Diffusion Tensor MRI: Correlation between fiber length and diffusion coefficients. <i>NMR in Biomedicine</i> , 2016 , 29, 1813-1824	4.4	13
109	A MRI-Compatible Combined Mechanical Loading and MR Elastography Setup to Study Deformation-Induced Skeletal Muscle Damage in Rats. <i>PLoS ONE</i> , 2017 , 12, e0169864	3.7	13
108	Whole heart DTI using asymmetric bipolar diffusion gradients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	12

107	Accelerated 4D phase contrast MRI in skeletal muscle contraction. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1799-1811	4.4	12
106	Diffusion tensor MRI of the healthy brachial plexus. <i>PLoS ONE</i> , 2018 , 13, e0196975	3.7	12
105	Plaque Permeability Assessed With DCE-MRI Associates With USPIO Uptake in Patients With Peripheral Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 2081-2083	8.4	12
104	Diffusion Tensor MRI of the Heart In Vivo Imaging of Myocardial Fiber Architecture. <i>Current Cardiovascular Imaging Reports</i> , 2014 , 7, 1	0.7	12
103	Cardiac 4D phase-contrast CMR at 9.4T using self-gated ultra-short echo time (UTE) imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 39	6.9	12
102	Multifunctional liposomes for MRI and image-guided drug delivery. <i>Therapeutic Delivery</i> , 2014 , 5, 21-4	3.8	12
101	Functional imaging of murine hearts using accelerated self-gated UTE cine MRI. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 83-94	2.5	11
100	²³ Na chemical shift imaging and Gd enhancement of myocardial edema. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 343-54	2.5	11
99	Gd-Containing Nanoparticles as MRI Contrast Agents 2013 , 449-487		11
98	Diffusion of water in skeletal muscle tissue is not influenced by compression in a rat model of deep tissue injury. <i>Journal of Biomechanics</i> , 2010 , 43, 570-5	2.9	11
97	Quantitative MRI Reveals Microstructural Changes in the Upper Leg Muscles After Running a Marathon. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 407-417	5.6	10
96	Myocardial perfusion MRI shows impaired perfusion of the mouse hypertrophic left ventricle. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 619-28	2.5	10
95	Histological validation of iron-oxide and gadolinium based MRI contrast agents in experimental atherosclerosis: the doQ and donQ. <i>Atherosclerosis</i> , 2012 , 225, 274-80	3.1	10
94	Multi-parametric assessment of the anti-angiogenic effects of liposomal glucocorticoids. <i>Angiogenesis</i> , 2011 , 14, 143-53	10.6	10
93	Influence of cell-internalization on relaxometric, optical and compositional properties of targeted paramagnetic quantum dot micelles. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 100-9	3.2	10
92	Diffusion-prepared neurography of the brachial plexus with a large field-of-view at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 644-54	5.6	10
91	Evaluation of compressed sensing MRI for accelerated bowel motility imaging. <i>European Radiology Experimental</i> , 2019 , 3, 7	4.5	9
90	Crossing muscle fibers of the human tongue resolved in vivo using constrained spherical deconvolution. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 96-105	5.6	9

89	Velocity mapping of the aortic flow at 9.4 T in healthy mice and mice with induced heart failure using time-resolved three-dimensional phase-contrast MRI (4D PC MRI). <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015 , 28, 315-27	2.8	9
88	High Spatiotemporal Resolution 4D Flow MRI of Intracranial Aneurysms at 7T in 10 Minutes. <i>American Journal of Neuroradiology</i> , 2020 , 41, 1201-1208	4.4	9
87	Detection of Treatment Success after Photodynamic Therapy Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>Theranostics</i> , 2017 , 7, 4643-4657	12.1	9
86	Improved Evaluation of Antivascular Cancer Therapy Using Constrained Tracer-Kinetic Modeling for Multiagent Dynamic Contrast-Enhanced MRI. <i>Cancer Research</i> , 2018 , 78, 1561-1570	10.1	9
85	Multiparametric MRI analysis for the evaluation of MR-guided high intensity focused ultrasound tumor treatment. <i>NMR in Biomedicine</i> , 2015 , 28, 1125-40	4.4	9
84	Dynamic changes in 1H-MR relaxometric properties of cell-internalized paramagnetic liposomes, as studied over a five-day period. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 69-76	3.2	9
83	Quantitative Multi-Parametric Magnetic Resonance Imaging of Tumor Response to Photodynamic Therapy. <i>PLoS ONE</i> , 2016 , 11, e0165759	3.7	9
82	Novel imaging techniques to study postmortem human fetal anatomy: a systematic review on microfocus-CT and ultra-high-field MRI. <i>European Radiology</i> , 2020 , 30, 2280-2292	8	9
81	Myoglobin and troponin concentrations are increased in early stage deep tissue injury. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 92, 50-57	4.1	8
80	Myocardial Injury and Compromised Cardiomyocyte Integrity Following a Marathon Run. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1445-1447	8.4	8
79	In Vivo Reconstruction of Lumbar Erector Spinae Architecture Using Diffusion Tensor MRI. <i>Clinical Spine Surgery</i> , 2016 , 29, E139-45	1.8	8
78	Feasibility of in vivo whole heart DTI and IVIM with a 15 minute acquisition protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	8
77	Current applications of nanotechnology for magnetic resonance imaging of apoptosis. <i>Methods in Molecular Biology</i> , 2010 , 624, 325-42	1.4	8
76	A novel approach to tracer-kinetic modeling for (macromolecular) dynamic contrast-enhanced MRI. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1142-53	4.4	8
75	Three-dimensional diffusion imaging with spiral encoded navigators from stimulated echoes (3D-DISPENSE). <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1052-1065	4.4	8
74	Spin-lock MR enhances the detection sensitivity of superparamagnetic iron oxide particles. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1740-9	4.4	7
73	Pseudo-spiral sampling and compressed sensing reconstruction provides flexibility of temporal resolution in accelerated aortic 4D flow MRI: A comparison with k-t principal component analysis. <i>NMR in Biomedicine</i> , 2020 , 33, e4255	4.4	7
72	Accelerated 4D self-gated MRI of tibiofemoral kinematics. <i>NMR in Biomedicine</i> , 2017 , 30, e3791	4.4	7

71	Cluster analysis of DCE-MRI data identifies regional tracer-kinetic changes after tumor treatment with high intensity focused ultrasound. <i>NMR in Biomedicine</i> , 2015 , 28, 1443-54	4.4	7
70	High-resolution NMR imaging of paramagnetic liposomes targeted to a functionalized surface. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1282-6	4.4	7
69	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1413-1421	6.3	6
68	Magnetic resonance elastography of skeletal muscle deep tissue injury. <i>NMR in Biomedicine</i> , 2019 , 32, e4087	4.4	6
67	Noninvasive mapping of endothelial dysfunction in myocardial ischemia by magnetic resonance imaging using an albumin-based contrast agent. <i>NMR in Biomedicine</i> , 2016 , 29, 1500-1510	4.4	6
66	T1 Mapping for the evaluation of high intensity focused ultrasound tumor treatment. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1593-601	4.4	6
65	On the use of steady-state signal equations for 2D TrueFISP imaging. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 815-22	3.3	6
64	An MR-compatible device for the in situ assessment of isometric contractile performance of mouse hind-limb ankle flexors. <i>Pflugers Archiv European Journal of Physiology</i> , 2003 , 447, 371-5	4.6	6
63	Predicting Poor Outcome Before Endovascular Treatment in Patients With Acute Ischemic Stroke. <i>Frontiers in Neurology</i> , 2020 , 11, 580957	4.1	6
62	There is an individual tolerance to mechanical loading in compression induced deep tissue injury. <i>Clinical Biomechanics</i> , 2019 , 63, 153-160	2.2	6
61	Implementation of a semiautomatic method to design patient-specific instruments for corrective osteotomy of the radius. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 829-840	3.9	6
60	Multifunctional magnetic resonance imaging probes. <i>Recent Results in Cancer Research</i> , 2013 , 187, 151-90.5	4.5	5
59	Contrast enhancement by lipid-based MRI contrast agents in mouse atherosclerotic plaques; a longitudinal study. <i>Contrast Media and Molecular Imaging</i> , 2013 , 8, 63-71	3.2	5
58	Loose spins in Co/Cu(100). <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 148, 187-188	2.8	5
57	Target-specific paramagnetic and superparamagnetic micelles for molecular MR imaging. <i>Methods in Molecular Biology</i> , 2011 , 771, 691-715	1.4	5
56	Atlases of Cardiac Fiber Differential Geometry. <i>Lecture Notes in Computer Science</i> , 2013 , 442-449	0.9	5
55	Supervised segmentation framework for evaluation of diffusion tensor imaging indices in skeletal muscle. <i>NMR in Biomedicine</i> , 2021 , 34, e4406	4.4	5
54	Comparison of four MR carotid surface coils at 3T. <i>PLoS ONE</i> , 2019 , 14, e0213107	3.7	4

53	Subclinical effects of long-chain fatty acid oxidation deficiency on the adult heart: A case-control magnetic resonance study. <i>Journal of Inherited Metabolic Disease</i> , 2020 , 43, 969-980	5.4	4
52	Self-gated CINE MRI for combined contrast-enhanced imaging and wall-stiffness measurements of murine aortic atherosclerotic lesions. <i>PLoS ONE</i> , 2013 , 8, e57299	3.7	4
51	Interface-selective determination of spin-dependent scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 176, 169-174	2.8	4
50	Diffusion MRI and MRS of Skeletal Muscle. <i>Israel Journal of Chemistry</i> , 2003 , 43, 71-80	3.4	4
49	Rapid stromal remodeling by short-term VEGFR2 inhibition increases chemotherapy delivery in esophagogastric adenocarcinoma. <i>Molecular Oncology</i> , 2020 , 14, 704-720	7.9	4
48	The repeatability of bilateral diffusion tensor imaging (DTI) in the upper leg muscles of healthy adults. <i>European Radiology</i> , 2020 , 30, 1709-1718	8	4
47	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
46	Noninvasive fluence rate mapping in living tissues using magnetic resonance thermometry. <i>Journal of Biomedical Optics</i> , 2017 , 22, 36001	3.5	3
45	A 12-channel flexible receiver coil for accelerated tongue imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 581-590	2.8	3
44	Novel axolotl cardiac function analysis method using magnetic resonance imaging. <i>PLoS ONE</i> , 2017 , 12, e0183446	3.7	3
43	Contrast-Enhanced T1-Mapping MRI for the Assessment of Myocardial Fibrosis. <i>Current Cardiovascular Imaging Reports</i> , 2014 , 7, 1	0.7	3
42	Targeted Nanoparticles for Cardiovascular Molecular Imaging. <i>Current Radiology Reports</i> , 2013 , 1, 191-204	0.5	3
41	Water and fat separation in real-time MRI of joint movement with phase-sensitive bSSFP. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 58-68	4.4	3
40	Labeling galectin-3 for the assessment of myocardial infarction in rats. <i>EJNMMI Research</i> , 2014 , 4, 75	3.6	3
39	Ex vivo cardiac DTI: on the effects of diffusion time and b-value. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	3
38	Marathon running transiently depletes the myocardial lipid pool. <i>Physiological Reports</i> , 2020 , 8, e14543	2.6	3
37	Diffusion Imaging in Muscle 2010 , 672-689		3
36	An isolated beating pig heart platform for a comprehensive evaluation of intracardiac blood flow with 4D flow MRI: a feasibility study. <i>European Radiology Experimental</i> , 2019 , 3, 40	4.5	3

35	MRI based 3D finite element modelling to investigate deep tissue injury. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 760-769	2.1	3
34	Altered brain fluid management in a rat model of arterial hypertension. <i>Fluids and Barriers of the CNS</i> , 2020 , 17, 41	7	2
33	Temporary Segmental Distraction in a Dog with Degenerative Lumbosacral Stenosis. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2018 , 31, 298-303	1.2	2
32	Locally advanced rectal cancer: 3D diffusion-prepared stimulated-echo turbo spin-echo versus 2D diffusion-weighted echo-planar imaging. <i>European Radiology Experimental</i> , 2020 , 4, 9	4.5	2
31	Right atrial function is associated with RV diastolic stiffness: RA-RV interaction in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2021 ,	13.6	2
30	Compressed sensing MRI with variable density averaging (CS-VDA) outperforms full sampling at low SNR. <i>Physics in Medicine and Biology</i> , 2020 , 65, 045004	3.8	2
29	Retrospective Camera-Based Respiratory Gating in Clinical Whole-Heart 4D Flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 440-451	5.6	2
28	Cardiac Biomarker Kinetics and Their Association With Magnetic Resonance Measures of Cardiomyocyte Integrity Following a Marathon Run: Implications for Postexercise Biomarker Testing. <i>Journal of the American Heart Association</i> , 2021 , 10, e020039	6	2
27	Computer-Assisted Techniques in Corrective Distal Radius Osteotomy Procedures. <i>IEEE Reviews in Biomedical Engineering</i> , 2020 , 13, 233-247	6.4	2
26	Quantification of Myocardial Creatine and Triglyceride Content in the Human Heart: Precision and Accuracy of in vivo Proton Magnetic Resonance Spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 411-420	5.6	2
25	Iron Oxide Nanoparticle Uptake in Mouse Brachiocephalic Artery Atherosclerotic Plaque Quantified by T-Mapping MRI. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
24	Crystalline and Interfacial Structure of Ultrathin Co Layers Grown on Pd(111): A ⁵⁹ Co NMR Study 2002 , 189, 701		2
23	Automatic segmentation of subcutaneous mouse tumors by multiparametric MR analysis based on endogenous contrast. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015 , 28, 363-75	2.8	1
22	Ultra-high resolution, 3-dimensional magnetic resonance imaging of the atherosclerotic vessel wall at clinical 7T. <i>PLoS ONE</i> , 2020 , 15, e0241779	3.7	1
21	Cartan Frames for Heart Wall Fiber Motion. <i>Lecture Notes in Computer Science</i> , 2017 , 32-41	0.9	1
20	Double delay alternating with nutation for tailored excitation facilitates banding-free isotropic high-resolution intracranial vessel wall imaging. <i>NMR in Biomedicine</i> , 2021 , 34, e4567	4.4	1
19	Higher spatial resolution improves the interpretation of the extent of ventricular trabeculation. <i>Journal of Anatomy</i> , 2021 ,	2.9	1
18	A diffusion tensor-based method facilitating volumetric assessment of fiber orientations in skeletal muscle.. <i>PLoS ONE</i> , 2022 , 17, e0261777	3.7	0

17	Combination of Radiological and Clinical Baseline Data for Outcome Prediction of Patients With an Acute Ischemic Stroke.. <i>Frontiers in Neurology</i> , 2022 , 13, 809343	4.1	o
16	Magnetic resonance spectroscopy of in vivo tissue metabolism in small animals. <i>Drug Discovery Today: Technologies</i> , 2011 , 8, e95-e102	7.1	
15	Imaging of Heart, Muscle, Vessels 257-275		
14	New Radiotracers, Reporter Probes and Contrast Agents 191-221		
13	Multi-modal MR imaging of the upper arm muscles of patients with Spinal Muscular Atrophy.. <i>NMR in Biomedicine</i> , 2022 , e4696	4.4	
12	Magnetic Resonance Imaging and Spectroscopy of Pressure Ulcers 2005 , 317-336		
11	Bimodal Liposomes and Paramagnetic QD-Micelles for Multimodality Molecular Imaging of Tumor Angiogenesis 2008 , 487-512		
10	Dynamic MRI of swallowing: real-time volumetric imaging at 12 frames per second at 3T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 1	2.8	
9	Can Marathon Running Induce Myocardial Microdamage?. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 609-609	1.2	
8	Molecular MR Imaging of Atherosclerosis 2015 , 269-296		
7	Connection Forms for Beating the Heart. <i>Lecture Notes in Computer Science</i> , 2015 , 83-92	0.9	
6	Denoising Moving Heart Wall Fibers Using Cartan Frames. <i>Lecture Notes in Computer Science</i> , 2017 , 672-689		
5	Concepts in Diagnostic Probe Design 2017 , 177-200		
4	Cancer-Specific Ligand Receptor Interactions 2013 , 461-507		
3	The Authors Reply. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2063-2064	8.4	
2	Coronary Flow Assessment Using Accelerated 4D Flow MRI With Respiratory Motion Correction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 725833	5.8	
1	Confirmatory factor analysis including MRI-derived adipose tissues quantification improves associations of metabolic dysregulation to diastolic dysfunction.. <i>Journal of Diabetes and Its Complications</i> , 2022 , 36, 108202	3.2	