Gustav J Strijkers

List of Publications by Year in Descending Order

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	A diffusion tensor-based method facilitating volumetric assessment of fiber orientations in skeletal muscle.. *PLoS ONE*, **2022**, 17, e0261777	3.7	0
249	Multi-modal MR imaging of the upper arm muscles of patients with Spinal Muscular Atrophy.. *NMR in Biomedicine*, **2022**, e4696	4.4	
248	Combination of Radiological and Clinical Baseline Data for Outcome Prediction of Patients With an Acute Ischemic Stroke.. *Frontiers in Neurology*, **2022**, 13, 809343	4.1	0
247	Confirmatory factor analysis including MRI-derived adipose tissues quantification improves associations of metabolic dysregulation to diastolic dysfunction.. *Journal of Diabetes and Its Complications*, **2022**, 36, 108202	3.2	
246	Right atrial function is associated with RV diastolic stiffness: RA-RV interaction in pulmonary arterial hypertension. *European Respiratory Journal*, **2021**,	13.6	2
245	Dynamic MRI of swallowing: real-time volumetric imaging at 12 frames per second at 3 T. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2021**, 1	2.8	
244	Retrospective Camera-Based Respiratory Gating in Clinical Whole-Heart 4D Flow MRI. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 440-451	5.6	2
243	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
242	Double delay alternating with nutation for tailored excitation facilitates banding-free isotropic high-resolution intracranial vessel wall imaging. *NMR in Biomedicine*, **2021**, 34, e4567	4.4	1
241	Cardiac Biomarker Kinetics and Their Association With Magnetic Resonance Measures of Cardiomyocyte Integrity Following a Marathon Run: Implications for Postexercise Biomarker Testing. *Journal of the American Heart Association*, **2021**, 10, e020039	6	2
240	Supervised segmentation framework for evaluation of diffusion tensor imaging indices in skeletal muscle. *NMR in Biomedicine*, **2021**, 34, e4406	4.4	5
239	Quantification of Myocardial Creatine and Triglyceride Content in the Human Heart: Precision and Accuracy of in vivo Proton Magnetic Resonance Spectroscopy. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 411-420	5.6	2
238	Iron Oxide Nanoparticle Uptake in Mouse Brachiocephalic Artery Atherosclerotic Plaque Quantified by T-Mapping MRI. *Pharmaceutics*, **2021**, 13,	6.4	2
237	Coronary Flow Assessment Using Accelerated 4D Flow MRI With Respiratory Motion Correction. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 725833	5.8	
236	Higher spatial resolution improves the interpretation of the extent of ventricular trabeculation. *Journal of Anatomy*, **2021**,	2.9	1
235	Myocardial Injury and Compromised Cardiomyocyte Integrity Following a Marathon Run. *JACC: Cardiovascular Imaging*, **2020**, 13, 1445-1447	8.4	8
234	Subclinical effects of long-chain fatty acid β-oxidation deficiency on the adult heart: A case-control magnetic resonance study. *Journal of Inherited Metabolic Disease*, **2020**, 43, 969-980	5.4	4

233	Quantitative MRI Reveals Microstructural Changes in the Upper Leg Muscles After Running a Marathon. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 407-417	5.6	10
232	Altered brain fluid management in a rat model of arterial hypertension. *Fluids and Barriers of the CNS*, **2020**, 17, 41	7	2
231	High Spatiotemporal Resolution 4D Flow MRI of Intracranial Aneurysms at 7T in 10 Minutes. *American Journal of Neuroradiology*, **2020**, 41, 1201-1208	4.4	9
230	Acute cellular and vascular responses to photodynamic therapy using EGFR-targeted nanobody-photosensitizer conjugates studied with intravital optical imaging and magnetic resonance imaging. *Theranostics*, **2020**, 10, 2436-2452	12.1	22
229	A 12-channel flexible receiver coil for accelerated tongue imaging. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2020**, 33, 581-590	2.8	3
228	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. *NMR in Biomedicine*, **2020**, 33, e4255	4.4	7
227	Highly accelerated 4D flow cardiovascular magnetic resonance using a pseudo-spiral Cartesian acquisition and compressed sensing reconstruction for carotid flow and wall shear stress. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 7	6.9	18
226	Locally advanced rectal cancer: 3D diffusion-prepared stimulated-echo turbo spin-echo versus 2D diffusion-weighted echo-planar imaging. *European Radiology Experimental*, **2020**, 4, 9	4.5	2
225	Ultra-high resolution, 3-dimensional magnetic resonance imaging of the atherosclerotic vessel wall at clinical 7T. *PLoS ONE*, **2020**, 15, e0241779	3.7	1
224	Marathon running transiently depletes the myocardial lipid pool. *Physiological Reports*, **2020**, 8, e14543	2.6	3
223	Rapid stromal remodeling by short-term VEGFR2 inhibition increases chemotherapy delivery in esophagogastric adenocarcinoma. *Molecular Oncology*, **2020**, 14, 704-720	7.9	4
222	The repeatability of bilateral diffusion tensor imaging (DTI) in the upper leg muscles of healthy adults. *European Radiology*, **2020**, 30, 1709-1718	8	4
221	Diagnostic accuracy of MRI and ultrasound in chronic immune-mediated neuropathies. *Neurology*, **2020**, 94, e62-e74	6.5	26
220	Compressed sensing MRI with variable density averaging (CS-VDA) outperforms full sampling at low SNR. *Physics in Medicine and Biology*, **2020**, 65, 045004	3.8	2
219	Novel imaging techniques to study postmortem human fetal anatomy: a systematic review on microfocus-CT and ultra-high-field MRI. *European Radiology*, **2020**, 30, 2280-2292	8	9
218	Predicting Poor Outcome Before Endovascular Treatment in Patients With Acute Ischemic Stroke. *Frontiers in Neurology*, **2020**, 11, 580957	4.1	6
217	The Authors Reply. *JACC: Cardiovascular Imaging*, **2020**, 13, 2063-2064	8.4	
216	Computer-Assisted Techniques in Corrective Distal Radius Osteotomy Procedures. *IEEE Reviews in Biomedical Engineering*, **2020**, 13, 233-247	6.4	2

215	An iterative sparse deconvolution method for simultaneous multicolor F-MRI of multiple contrast agents. *Magnetic Resonance in Medicine*, **2020**, 83, 228-239	4.4	16
214	Probing myeloid cell dynamics in ischaemic heart disease by nanotracer hot-spot imaging. *Nature Nanotechnology*, **2020**, 15, 398-405	28.7	20
213	Evaluation of compressed sensing MRI for accelerated bowel motility imaging. *European Radiology Experimental*, **2019**, 3, 7	4.5	9
212	Biomechanical considerations in the design of patient-specific fixation plates for the distal radius. *Medical and Biological Engineering and Computing*, **2019**, 57, 1099-1107	3.1	13
211	Crossing muscle fibers of the human tongue resolved in vivo using constrained spherical deconvolution. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 96-105	5.6	9
210	Myoglobin and troponin concentrations are increased in early stage deep tissue injury. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 92, 50-57	4.1	8
209	Magnetic resonance elastography of skeletal muscle deep tissue injury. *NMR in Biomedicine*, **2019**, 32, e4087	4.4	6
208	Emerging Magnetic Resonance Imaging Techniques for Atherosclerosis Imaging. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 841-849	9.4	18
207	Comparison of four MR carotid surface coils at 3T. *PLoS ONE*, **2019**, 14, e0213107	3.7	4
206	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. *Journal of Neuromuscular Diseases*, **2019**, 6, 1-30	5	32
205	Plaque Permeability Assessed With DCE-MRI Associates With USPIO Uptake in Patients With Peripheral Artery Disease. *JACC: Cardiovascular Imaging*, **2019**, 12, 2081-2083	8.4	12
204	Data-efficient deep learning of radiological image data for outcome prediction after endovascular treatment of patients with acute ischemic stroke. *Computers in Biology and Medicine*, **2019**, 115, 103516	7	28
203	Can Marathon Running Induce Myocardial Microdamage?. *Medicine and Science in Sports and Exercise*, **2019**, 51, 609-609	1.2	
202	There is an individual tolerance to mechanical loading in compression induced deep tissue injury. *Clinical Biomechanics*, **2019**, 63, 153-160	2.2	6
201	An isolated beating pig heart platform for a comprehensive evaluation of intracardiac blood flow with 4D flow MRI: a feasibility study. *European Radiology Experimental*, **2019**, 3, 40	4.5	3
200	Machine learning improves prediction of delayed cerebral ischemia in patients with subarachnoid hemorrhage. *Journal of NeuroInterventional Surgery*, **2019**, 11, 497-502	7.8	27
199	Rapid T quantification from high resolution 3D data with model-based reconstruction. *Magnetic Resonance in Medicine*, **2019**, 81, 2072-2089	4.4	17
198	Implementation of a semiautomatic method to design patient-specific instruments for corrective osteotomy of the radius. *International Journal of Computer Assisted Radiology and Surgery*, **2019**, 14, 829-840	3.9	6

197	Three-dimensional diffusion imaging with spiral encoded navigators from stimulated echoes (3D-DISPENSE). *Magnetic Resonance in Medicine*, **2019**, 81, 1052-1065	4.4	8
196	Accelerated 4D phase contrast MRI in skeletal muscle contraction. *Magnetic Resonance in Medicine*, **2018**, 80, 1799-1811	4.4	12
195	Improved Evaluation of Antivascular Cancer Therapy Using Constrained Tracer-Kinetic Modeling for Multiagent Dynamic Contrast-Enhanced MRI. *Cancer Research*, **2018**, 78, 1561-1570	10.1	9
194	An advanced magnetic resonance imaging perspective on the etiology of deep tissue injury. *Journal of Applied Physiology*, **2018**, 124, 1580-1596	3.7	14
193	Diffusion tensor MRI of the healthy brachial plexus. *PLoS ONE*, **2018**, 13, e0196975	3.7	12
192	Temporary Segmental Distraction in a Dog with Degenerative Lumbosacral Stenosis. *Veterinary and Comparative Orthopaedics and Traumatology*, **2018**, 31, 298-303	1.2	2
191	Quantitative MRI in early intervertebral disc degeneration: T1rho correlates better than T2 and ADC with biomechanics, histology and matrix content. *PLoS ONE*, **2018**, 13, e0191442	3.7	33
190	Positioning error of custom 3D-printed surgical guides for the radius: influence of fitting location and guide design. *International Journal of Computer Assisted Radiology and Surgery*, **2018**, 13, 507-518	3.9	18
189	Statins Promote Cardiac Infarct Healing by Modulating Endothelial Barrier Function Revealed by Contrast-Enhanced Magnetic Resonance Imaging. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 186-194	9.4	17
188	Vessel wall characterization using quantitative MRI: what's in a number?. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2018**, 31, 201-222	2.8	22
187	Inhibiting Inflammation with Myeloid Cell-Specific Nanobiologics Promotes Organ Transplant Acceptance. *Immunity*, **2018**, 49, 819-828.e6	32.3	95
186	MRI based 3D finite element modelling to investigate deep tissue injury. *Computer Methods in Biomechanics and Biomedical Engineering*, **2018**, 21, 760-769	2.1	3
185	Regional assessment of carotid artery pulse wave velocity using compressed sensing accelerated high temporal resolution 2D CINE phase contrast cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 86	6.9	14
184	Breast magnetic resonance elastography: a review of clinical work and future perspectives. *NMR in Biomedicine*, **2018**, 31, e3932	4.4	14
183	Skeletal muscle diffusion tensor-MRI fiber tracking: rationale, data acquisition and analysis methods, applications and future directions. *NMR in Biomedicine*, **2017**, 30, e3563	4.4	43
182	Noninvasive fluence rate mapping in living tissues using magnetic resonance thermometry. *Journal of Biomedical Optics*, **2017**, 22, 36001	3.5	3
181	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. *Bioconjugate Chemistry*, **2017**, 28, 1413-1421	6.3	6
180	Diffusion-prepared stimulated-echo turbo spin echo (DPsti-TSE): An eddy current-insensitive sequence for three-dimensional high-resolution and undistorted diffusion-weighted imaging. *NMR in Biomedicine*, **2017**, 30, e3719	4.4	18

179	Novel axolotl cardiac function analysis method using magnetic resonance imaging. *PLoS ONE*, **2017**, 12, e0183446	3.7	3
178	Detection of Treatment Success after Photodynamic Therapy Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging. *Theranostics*, **2017**, 7, 4643-4657	12.1	9
177	3D Fiber Orientation in Atherosclerotic Carotid Plaques. *Journal of Structural Biology*, **2017**, 200, 28-35	3.4	19
176	Accelerated 4D self-gated MRI of tibiofemoral kinematics. *NMR in Biomedicine*, **2017**, 30, e3791	4.4	7
175	Metformin and sulodexide restore cardiac microvascular perfusion capacity in diet-induced obese rats. *Cardiovascular Diabetology*, **2017**, 16, 47	8.7	15
174	Cardiac 4D phase-contrast CMR at 9.4 T using self-gated ultra-short echo time (UTE) imaging. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 39	6.9	12
173	Safety of intradiscal injection and biocompatibility of polyester amide microspheres in a canine model predisposed to intervertebral disc degeneration. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 707-714	3.5	16
172	Water and fat separation in real-time MRI of joint movement with phase-sensitive bSSFP. *Magnetic Resonance in Medicine*, **2017**, 78, 58-68	4.4	3
171	Human Cardiac P-MR Spectroscopy at 3 Tesla Cannot Detect Failing Myocardial Energy Homeostasis during Exercise. *Frontiers in Physiology*, **2017**, 8, 939	4.6	16
170	A MRI-Compatible Combined Mechanical Loading and MR Elastography Setup to Study Deformation-Induced Skeletal Muscle Damage in Rats. *PLoS ONE*, **2017**, 12, e0169864	3.7	13
169	Cartan Frames for Heart Wall Fiber Motion. *Lecture Notes in Computer Science*, **2017**, 32-41	0.9	1
168	Denoising Moving Heart Wall Fibers Using Cartan Frames. *Lecture Notes in Computer Science*, **2017**, 672-680	0.9	
167	Concepts in Diagnostic Probe Design **2017**, 177-200		
166	Assessment of passive muscle elongation using Diffusion Tensor MRI: Correlation between fiber length and diffusion coefficients. *NMR in Biomedicine*, **2016**, 29, 1813-1824	4.4	13
165	Noninvasive mapping of endothelial dysfunction in myocardial ischemia by magnetic resonance imaging using an albumin-based contrast agent. *NMR in Biomedicine*, **2016**, 29, 1500-1510	4.4	6
164	A novel diffusion-tensor MRI approach for skeletal muscle fascicle length measurements. *Physiological Reports*, **2016**, 4, e13012	2.6	19
163	In Vivo Reconstruction of Lumbar Erector Spinae Architecture Using Diffusion Tensor MRI. *Clinical Spine Surgery*, **2016**, 29, E139-45	1.8	8
162	Quantitative Multi-Parametric Magnetic Resonance Imaging of Tumor Response to Photodynamic Therapy. *PLoS ONE*, **2016**, 11, e0165759	3.7	9

161	Techniques and applications of skeletal muscle diffusion tensor imaging: A review. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 773-88	5.6	96
160	A novel approach to tracer-kinetic modeling for (macromolecular) dynamic contrast-enhanced MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 1142-53	4.4	8
159	Diffusion-prepared neurography of the brachial plexus with a large field-of-view at 3T. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 644-54	5.6	10
158	MRI methods for the evaluation of high intensity focused ultrasound tumor treatment: Current status and future needs. *Magnetic Resonance in Medicine*, **2016**, 75, 302-17	4.4	35
157	Automatic segmentation of subcutaneous mouse tumors by multiparametric MR analysis based on endogenous contrast. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 363-75	2.8	1
156	The evolution of collagen fiber orientation in engineered cardiovascular tissues visualized by diffusion tensor imaging. *PLoS ONE*, **2015**, 10, e0127847	3.7	26
155	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). *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 315-27	2.8	9
154	Functional imaging of murine hearts using accelerated self-gated UTE cine MRI. *International Journal of Cardiovascular Imaging*, **2015**, 31, 83-94	2.5	11
153	Whole heart DTI using asymmetric bipolar diffusion gradients. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17,	6.9	12
152	Small animal cardiovascular MR imaging and spectroscopy. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2015**, 88-89, 1-47	10.4	22
151	Inhibiting macrophage proliferation suppresses atherosclerotic plaque inflammation. *Science Advances*, **2015**, 1,	14.3	137
150	Spin-lock MR enhances the detection sensitivity of superparamagnetic iron oxide particles. *Magnetic Resonance in Medicine*, **2015**, 74, 1740-9	4.4	7
149	Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. *Arthritis Research and Therapy*, **2015**, 17, 137	5.7	39
148	Early impairment of coronary microvascular perfusion capacity in rats on a high fat diet. *Cardiovascular Diabetology*, **2015**, 14, 150	8.7	15
147	Multiparametric MRI analysis for the evaluation of MR-guided high intensity focused ultrasound tumor treatment. *NMR in Biomedicine*, **2015**, 28, 1125-40	4.4	9
146	In vivo mouse myocardial (31)P MRS using three-dimensional image-selected in vivo spectroscopy (3D ISIS): technical considerations and biochemical validations. *NMR in Biomedicine*, **2015**, 28, 1218-27	4.4	14
145	Cluster analysis of DCE-MRI data identifies regional tracer-kinetic changes after tumor treatment with high intensity focused ultrasound. *NMR in Biomedicine*, **2015**, 28, 1443-54	4.4	7
144	T1 mapping for the evaluation of high intensity focused ultrasound tumor treatment. *Magnetic Resonance in Medicine*, **2015**, 73, 1593-601	4.4	6

143	Evaluation of iron oxide nanoparticle micelles for magnetic particle imaging (MPI) of thrombosis. *PLoS ONE*, **2015**, 10, e0119257	3.7	27
142	Assessment of Myocardial Fibrosis in Mice Using a T2*-Weighted 3D Radial Magnetic Resonance Imaging Sequence. *PLoS ONE*, **2015**, 10, e0129899	3.7	14
141	Muscle changes detected with diffusion-tensor imaging after long-distance running. *Radiology*, **2015**, 274, 548-62	20.5	88
140	Molecular MR Imaging of Atherosclerosis **2015**, 269-296		
139	Connection Forms for Beating the Heart. *Lecture Notes in Computer Science*, **2015**, 83-92	0.9	
138	Contrast-Enhanced T1-Mapping MRI for the Assessment of Myocardial Fibrosis. *Current Cardiovascular Imaging Reports*, **2014**, 7, 1	0.7	3
137	Feasibility of in vivo whole heart DTI and IVIM with a 15 minute acquisition protocol. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	8
136	Accelerated self-gated UTE of murine heart. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	78
135	Quantitative T2 mapping of the mouse heart by segmented MLEV phase-cycled T2 preparation. *Magnetic Resonance in Medicine*, **2014**, 72, 409-17	4.4	27
134	Amide proton transfer imaging of high intensity focused ultrasound-treated tumor tissue. *Magnetic Resonance in Medicine*, **2014**, 72, 1113-22	4.4	14
133	Myocardial perfusion MRI shows impaired perfusion of the mouse hypertrophic left ventricle. *International Journal of Cardiovascular Imaging*, **2014**, 30, 619-28	2.5	10
132	Diffusion Tensor MRI of the Heart In Vivo Imaging of Myocardial Fiber Architecture. *Current Cardiovascular Imaging Reports*, **2014**, 7, 1	0.7	12
131	Relaxometric studies of gadolinium-functionalized perfluorocarbon nanoparticles for MR imaging. *Contrast Media and Molecular Imaging*, **2014**, 9, 83-91	3.2	24
130	Labeling galectin-3 for the assessment of myocardial infarction in rats. *EJNMMI Research*, **2014**, 4, 75	3.6	3
129	Multifunctional liposomes for MRI and image-guided drug delivery. *Therapeutic Delivery*, **2014**, 5, 21-4	3.8	12
128	Ex vivo cardiac DTI: on the effects of diffusion time and b-value. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	3
127	Multiparametric MRI analysis for the identification of high intensity focused ultrasound-treated tumor tissue. *PLoS ONE*, **2014**, 9, e99936	3.7	22
126	High frame rate retrospectively triggered Cine MRI for assessment of murine diastolic function. *Magnetic Resonance in Medicine*, **2013**, 69, 648-56	4.4	19

125	Paramagnetic liposomes for molecular MRI and MRI-guided drug delivery. *NMR in Biomedicine*, **2013**, 26, 728-44	4.4	72
124	MRI of ICAM-1 upregulation after stroke: the importance of choosing the appropriate target-specific particulate contrast agent. *Molecular Imaging and Biology*, **2013**, 15, 411-22	3.8	43
123	Targeted Nanoparticles for Cardiovascular Molecular Imaging. *Current Radiology Reports*, **2013**, 1, 191-204	0.5	3
122	Multifunctional magnetic resonance imaging probes. *Recent Results in Cancer Research*, **2013**, 187, 151-90	2.5	5
121	23Na chemical shift imaging and Gd enhancement of myocardial edema. *International Journal of Cardiovascular Imaging*, **2013**, 29, 343-54	2.5	11
120	Contrast enhancement by lipid-based MRI contrast agents in mouse atherosclerotic plaques; a longitudinal study. *Contrast Media and Molecular Imaging*, **2013**, 8, 63-71	3.2	5
119	Passive targeting of lipid-based nanoparticles to mouse cardiac ischemia-reperfusion injury. *Contrast Media and Molecular Imaging*, **2013**, 8, 117-26	3.2	22
118	Gd-Containing Nanoparticles as MRI Contrast Agents **2013**, 449-487		11
117	Iron oxide nanoparticle-micelles (ION-micelles) for sensitive (molecular) magnetic particle imaging and magnetic resonance imaging. *PLoS ONE*, **2013**, 8, e57335	3.7	51
116	Quantitative first-pass perfusion MRI of the mouse myocardium. *Magnetic Resonance in Medicine*, **2013**, 69, 1735-44	4.4	23
115	Accelerated high-frame-rate mouse heart cine-MRI using compressed sensing reconstruction. *NMR in Biomedicine*, **2013**, 26, 451-7	4.4	14
114	DTI of human skeletal muscle: the effects of diffusion encoding parameters, signal-to-noise ratio and T2 on tensor indices and fiber tracts. *NMR in Biomedicine*, **2013**, 26, 1339-52	4.4	94
113	Phenotyping of left and right ventricular function in mouse models of compensated hypertrophy and heart failure with cardiac MRI. *PLoS ONE*, **2013**, 8, e55424	3.7	26
112	Self-gated CINE MRI for combined contrast-enhanced imaging and wall-stiffness measurements of murine aortic atherosclerotic lesions. *PLoS ONE*, **2013**, 8, e57299	3.7	4
111	Embryonic cardiomyocyte, but not autologous stem cell transplantation, restricts infarct expansion, enhances ventricular function, and improves long-term survival. *PLoS ONE*, **2013**, 8, e61510	3.7	14
110	Atlases of Cardiac Fiber Differential Geometry. *Lecture Notes in Computer Science*, **2013**, 442-449	0.9	5
109	Cancer-Specific Ligand–Receptor Interactions **2013**, 461-507		
108	Dual-targeting of αvβ3 and galectin-1 improves the specificity of paramagnetic/fluorescent liposomes to tumor endothelium in vivo. *Journal of Controlled Release*, **2012**, 158, 207-14	11.7	71

107	MRI-assessed therapeutic effects of locally administered PLGA nanoparticles loaded with anti-inflammatory siRNA in a murine arthritis model. *Journal of Controlled Release*, **2012**, 161, 772-80	11.7	46
106	Multimodal liposomes for SPECT/MR imaging as a tool for in situ relaxivity measurements. *Contrast Media and Molecular Imaging*, **2012**, 7, 68-75	3.2	14
105	Contrast-enhanced MRI of murine myocardial infarction - part II. *NMR in Biomedicine*, **2012**, 25, 969-84	4.4	16
104	Contrast-enhanced MRI of murine myocardial infarction - part I. *NMR in Biomedicine*, **2012**, 25, 953-68	4.4	16
103	Molecular MRI of Inflammation in Atherosclerosis. *Current Cardiovascular Imaging Reports*, **2012**, 5, 60-68	0.7	25
102	Evaluation of the female pelvic floor in pelvic organ prolapse using 3.0-Tesla diffusion tensor imaging and fibre tractography. *European Radiology*, **2012**, 22, 2806-13	8	26
101	Histological validation of iron-oxide and gadolinium based MRI contrast agents in experimental atherosclerosis: the do[illegible] and don[illegible]. *Atherosclerosis*, **2012**, 225, 274-80	3.1	10
100	Quantitative T 2* assessment of acute and chronic myocardial ischemia/reperfusion injury in mice. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2012**, 25, 369-79	2.8	17
99	Internalization of paramagnetic phosphatidylserine-containing liposomes by macrophages. *Journal of Nanobiotechnology*, **2012**, 10, 37	9.4	24
98	MiR-155 inhibits cell migration of human cardiomyocyte progenitor cells (hCMPCs) via targeting of MMP-16. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 2379-86	5.6	34
97	Distribution of lipid-based nanoparticles to infarcted myocardium with potential application for MRI-monitored drug delivery. *Journal of Controlled Release*, **2012**, 162, 276-85	11.7	56
96	A comparative analysis of the collagen architecture in the carotid artery: second harmonic generation versus diffusion tensor imaging. *Biochemical and Biophysical Research Communications*, **2012**, 426, 54-8	3.4	36
95	Targeting of ICAM-1 on vascular endothelium under static and shear stress conditions using a liposomal Gd-based MRI contrast agent. *Journal of Nanobiotechnology*, **2012**, 10, 25	9.4	55
94	Diffusion-tensor MRI reveals the complex muscle architecture of the human forearm. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 237-48	5.6	87
93	Molecular MR Imaging of Collagen in Mouse Atherosclerosis by Using Paramagnetic CNA35 Micelles. *European Journal of Inorganic Chemistry*, **2012**, 2012, 2115-2125	2.3	18
92	Paramagnetic self-assembled nanoparticles as supramolecular MRI contrast agents. *Contrast Media and Molecular Imaging*, **2012**, 7, 356-61	3.2	50
91	Heart wall myofibers are arranged in minimal surfaces to optimize organ function. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9248-53	11.5	52
90	Implantation of a carotid cuff for triggering shear-stress induced atherosclerosis in mice. *Journal of Visualized Experiments*, **2012**,	1.6	14

89	In vivo characterization of a new abdominal aortic aneurysm mouse model with conventional and molecular magnetic resonance imaging. *Journal of the American College of Cardiology*, **2011**, 58, 2522-30	15.1	67
88	Magnetic resonance spectroscopy of in vivo tissue metabolism in small animals. *Drug Discovery Today: Technologies*, **2011**, 8, e95-e102	7.1	
87	The effects of deformation, ischemia, and reperfusion on the development of muscle damage during prolonged loading. *Journal of Applied Physiology*, **2011**, 111, 1168-77	3.7	89
86	Anti-tumor activity of liposomal glucocorticoids: The relevance of liposome-mediated drug delivery, intratumoral localization and systemic activity. *Journal of Controlled Release*, **2011**, 151, 10-7	11.7	50
85	Feasibility of diffusion tensor imaging (DTI) with fibre tractography of the normal female pelvic floor. *European Radiology*, **2011**, 21, 1243-9	8	54
84	Multi-parametric assessment of the anti-angiogenic effects of liposomal glucocorticoids. *Angiogenesis*, **2011**, 14, 143-53	10.6	10
83	Regional contrast agent quantification in a mouse model of myocardial infarction using 3D cardiac T1 mapping. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13, 56	6.9	16
82	Photochemical activation of endosomal escape of MRI-Gd-agents in tumor cells. *Magnetic Resonance in Medicine*, **2011**, 65, 212-9	4.4	25
81	Ischemia-reperfusion injury in rat skeletal muscle assessed with T2-weighted and dynamic contrast-enhanced MRI. *Magnetic Resonance in Medicine*, **2011**, 66, 528-37	4.4	27
80	Three-dimensional T1 mapping of the mouse heart using variable flip angle steady-state MR imaging. *NMR in Biomedicine*, **2011**, 24, 154-62	4.4	53
79	Quantitative (1)H MRI, (19)F MRI, and (19)F MRS of cell-internalized perfluorocarbon paramagnetic nanoparticles. *Contrast Media and Molecular Imaging*, **2011**, 6, 19-27	3.2	36
78	Contrast enhancement by differently sized paramagnetic MRI contrast agents in mice with two phenotypes of atherosclerotic plaque. *Contrast Media and Molecular Imaging*, **2011**, 6, 35-45	3.2	28
77	Dynamic changes in 1H-MR relaxometric properties of cell-internalized paramagnetic liposomes, as studied over a five-day period. *Contrast Media and Molecular Imaging*, **2011**, 6, 69-76	3.2	9
76	Influence of cell-internalization on relaxometric, optical and compositional properties of targeted paramagnetic quantum dot micelles. *Contrast Media and Molecular Imaging*, **2011**, 6, 100-9	3.2	10
75	The binding of CNA35 contrast agents to collagen fibrils. *Chemical Communications*, **2011**, 47, 1503-5	5.8	19
74	Target-specific paramagnetic and superparamagnetic micelles for molecular MR imaging. *Methods in Molecular Biology*, **2011**, 771, 691-715	1.4	5
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