

Martijn Froeling

List of Publications by Year in Descending Order

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

109
papers

2,407
citations

24
h-index

46
g-index

121
ext. papers

3,238
ext. citations

5.3
avg, IF

5.04
L-index

#	Paper	IF	Citations
109	Multi-modal MR imaging of the upper arm muscles of patients with Spinal Muscular Atrophy.. <i>NMR in Biomedicine</i> , 2022 , e4696	4.4	
108	MRI of the intraspinal nerve roots in patients with chronic inflammatory neuropathies: abnormalities correlate with clinical phenotypes.. <i>Journal of Neurology</i> , 2022 , 1	5.5	
107	Robustness and stability of volume-based tractography in a multicenter setting.. <i>NMR in Biomedicine</i> , 2022 , e4707	4.4	0
106	Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis.. <i>Nature Medicine</i> , 2022 ,	50.5	12
105	Dynamic Contrast-enhanced and Diffusion-weighted Magnetic Resonance Imaging for Response Evaluation After Single-Dose Ablative Neoadjuvant Partial Breast Irradiation.. <i>Advances in Radiation Oncology</i> , 2022 , 7, 100854	3.3	0
104	The relationship between quantitative magnetic resonance imaging of the ankle plantar flexors, muscle function during walking and maximal strength in people with neuromuscular diseases.. <i>Clinical Biomechanics</i> , 2022 , 94, 105609	2.2	
103	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	
102	Quantitative magnetic resonance imaging of the brachial plexus shows specific changes in nerve architecture in chronic inflammatory demyelinating polyneuropathy, multifocal motor neuropathy and motor neuron disease. <i>European Journal of Neurology</i> , 2021 , 28, 2716-2726	6	1
101	Diffusion Tensor Imaging Shows Differences Between Myotonic Dystrophy Type 1 and Type 2. <i>Journal of Neuromuscular Diseases</i> , 2021 , 8, 949-962	5	1
100	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
99	Multiparametric Renal MRI: An Intrasubject Test-Retest Repeatability Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 859-873	5.6	7
98	Diffusion tensor imaging of the anterior cruciate ligament following primary repair with internal bracing: A longitudinal study. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 1318-1330	3.8	3
97	Can sodium MRI be used as a method for mapping of cartilage stiffness?. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 34, 327-336	2.8	3
96	Evaluation of interrater reliability of different muscle segmentation techniques in diffusion tensor imaging. <i>NMR in Biomedicine</i> , 2021 , 34, e4430	4.4	2
95	Validation of multiparametric MRI by histopathology after nephrectomy: a case study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 34, 377-387	2.8	
94	Quantitative assessment of brachial plexus MRI for the diagnosis of chronic inflammatory neuropathies. <i>Journal of Neurology</i> , 2021 , 268, 978-988	5.5	6
93	Quantification of disease progression in spinal muscular atrophy with muscle MRI-a pilot study. <i>NMR in Biomedicine</i> , 2021 , 34, e4473	4.4	7

92	Post-exercise intramuscular O supply is tightly coupled with a higher proximal-to-distal ATP synthesis rate in human tibialis anterior. <i>Journal of Physiology</i> , 2021 , 599, 1533-1550	3.9	3
91	Quantitative Interpretation of Myocardial Fiber Structure in the Left and Right Ventricle of an Equine Heart Using Diffusion Tensor Cardiovascular Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2021 , 178-188	0.9	
90	PCA denoising and Wiener deconvolution of P 3D CSI data to enhance effective SNR and improve point spread function. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2992-3009	4.4	2
89	No need to detune transmitters in 32-channel receiver arrays at 7 T. <i>NMR in Biomedicine</i> , 2021 , 34, e4491	4.4	1
88	Quantitative Muscle-MRI Correlates with Histopathology in Skeletal Muscle Biopsies. <i>Journal of Neuromuscular Diseases</i> , 2021 , 8, 669-678	5	2
87	High Inter-Rater Reliability of Manual Segmentation and Volume-Based Tractography in Healthy and Dystrophic Human Calf Muscle. <i>Diagnostics</i> , 2021 , 11,	3.8	1
86	3D Automated Segmentation of Lower Leg Muscles Using Machine Learning on a Heterogeneous Dataset. <i>Diagnostics</i> , 2021 , 11,	3.8	1
85	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. <i>NeuroImage</i> , 2021 , 240, 118367	7.9	3
84	Proton nuclear magnetic resonance J-spectroscopy of phantoms containing brain metabolites on a portable 0.05T MRI scanner. <i>Journal of Magnetic Resonance</i> , 2020 , 320, 106834	3	1
83	Vasogenic edema versus neuroplasticity as neural correlates of hippocampal volume increase following electroconvulsive therapy. <i>Brain Stimulation</i> , 2020 , 13, 1080-1086	5.1	14
82	Myocardial Injury and Compromised Cardiomyocyte Integrity Following a Marathon Run. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1445-1447	8.4	8
81	T2* mapping in an equine articular groove model: Visualizing changes in collagen orientation. <i>Journal of Orthopaedic Research</i> , 2020 , 38, 2383-2389	3.8	3
80	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
79	Diffusion tensor imaging reveals changes in non-fat infiltrated muscles in late onset Pompe disease. <i>Muscle and Nerve</i> , 2020 , 62, 541-549	3.4	10
78	Low interrater reliability of brachial plexus MRI in chronic inflammatory neuropathies. <i>Muscle and Nerve</i> , 2020 , 61, 779-783	3.4	5
77	Marathon running transiently depletes the myocardial lipid pool. <i>Physiological Reports</i> , 2020 , 8, e14543	2.6	3
76	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 177-195	2.8	21
75	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

74	Diagnostic accuracy of MRI and ultrasound in chronic immune-mediated neuropathies. <i>Neurology</i> , 2020 , 94, e62-e74	6.5	26
73	Decreased native renal T up to one week after gadobutrol administration in healthy volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 622-631	5.6	1
72	Diffusion tensor imaging of the human thigh: consideration of DTI-based fiber tracking stop criteria. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 343-355	2.8	7
71	MRI of Skeletal Muscles in Participants with Type 2 Diabetes with or without Diabetic Polyneuropathy. <i>Radiology</i> , 2020 , 297, 608-619	20.5	9
70	The YOUTH cohort study: MRI protocol and test-retest reliability in adults. <i>Developmental Cognitive Neuroscience</i> , 2020 , 45, 100816	5.5	9
69	Diffusion tensor imaging of the anterior cruciate ligament graft following reconstruction: a longitudinal study. <i>European Radiology</i> , 2020 , 30, 6673-6684	8	1
68	Quantitative MRI of skeletal muscle in a cross-sectional cohort of patients with spinal muscular atrophy types 2 and 3. <i>NMR in Biomedicine</i> , 2020 , 33, e4357	4.4	15
67	Spherical deconvolution with tissue-specific response functions and multi-shell diffusion MRI to estimate multiple fiber orientation distributions (mFODs). <i>NeuroImage</i> , 2020 , 222, 117206	7.9	4
66	Multi-parametric MR in Becker muscular dystrophy patients. <i>NMR in Biomedicine</i> , 2020 , 33, e4385	4.4	8
65	Untangling the diffusion signal using the phasor transform. <i>NMR in Biomedicine</i> , 2020 , 33, e4372	4.4	3
64	The Authors Reply. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2063-2064	8.4	
63	T relaxation-time mapping in healthy and diseased skeletal muscle using extended phase graph algorithms. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2656-2670	4.4	13
62	Magnetic resonance imaging of the cervical spinal cord in spinal muscular atrophy. <i>NeuroImage: Clinical</i> , 2019 , 24, 102002	5.3	5
61	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
60	Evaluation of the 3D fractal dimension as a marker of structural brain complexity in multiple-acquisition MRI. <i>Human Brain Mapping</i> , 2019 , 40, 3299-3320	5.9	19
59	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
58	On the sensitivity of the diffusion MRI signal to brain activity in response to a motor cortex paradigm. <i>Human Brain Mapping</i> , 2019 , 40, 5069-5082	5.9	6
57	Multi-center evaluation of stability and reproducibility of quantitative MRI measures in healthy calf muscles. <i>NMR in Biomedicine</i> , 2019 , 32, e4119	4.4	25

56	QMRTTools: a Mathematica toolbox for quantitative MRI analysis.. <i>Journal of Open Source Software</i> , 2019 , 4, 1204	5.2	10
55	Can Marathon Running Induce Myocardial Microdamage?. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 609-609	1.2	
54	Muscle diffusion tensor imaging in glycogen storage disease V (McArdle disease). <i>European Radiology</i> , 2019 , 29, 3224-3232	8	6
53	Accelerated 4D phase contrast MRI in skeletal muscle contraction. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1799-1811	4.4	12
52	Post-mortem diffusion MRI of the cervical spine and its nerve roots. <i>Journal of Forensic Radiology and Imaging</i> , 2018 , 12, 50-56	1.3	3
51	Multicenter reproducibility study of diffusion MRI and fiber tractography of the lumbosacral nerves. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 951-963	5.6	7
50	A robust deconvolution method to disentangle multiple water pools in diffusion MRI. <i>NMR in Biomedicine</i> , 2018 , 31, e3965	4.4	15
49	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
48	Multiparametric quantitative MRI assessment of thigh muscles in limb-girdle muscular dystrophy 2A and 2B. <i>Muscle and Nerve</i> , 2018 , 58, 550-558	3.4	19
47	Diffusion tensor MRI of the healthy brachial plexus. <i>PLoS ONE</i> , 2018 , 13, e0196975	3.7	12
46	RF coils: A practical guide for nonphysicists. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 590	5.6	65
45	Mono, bi- and tri-exponential diffusion MRI modelling for renal solid masses and comparison with histopathological findings. <i>Cancer Imaging</i> , 2018 , 18, 44	5.6	9
44	Comparison of six fit algorithms for the intra-voxel incoherent motion model of diffusion-weighted magnetic resonance imaging data of pancreatic cancer patients. <i>PLoS ONE</i> , 2018 , 13, e0194590	3.7	34
43	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
42	"MASSIVE" brain dataset: Multiple acquisitions for standardization of structural imaging validation and evaluation. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1797-1809	4.4	47
41	Diffusion tensor imaging of the anterior cruciate ligament graft. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1423-1432	5.6	14
40	Diffusion tensor imaging of the human calf: Variation of inter- and intramuscle-specific diffusion parameters. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1137-1148	5.6	24
39	A tri-exponential model for intravoxel incoherent motion analysis of the human kidney: In silico and during pharmacological renal perfusion modulation. <i>European Journal of Radiology</i> , 2017 , 91, 168-174	4.7	15

38	Intravoxel incoherent motion modeling in the kidneys: Comparison of mono-, bi-, and triexponential fit. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 228-239	5.6	31
37	Accelerated 4D self-gated MRI of tibiofemoral kinematics. <i>NMR in Biomedicine</i> , 2017 , 30, e3791	4.4	7
36	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017 , 8, 1349	17.4	609
35	Effects of perfusion on DTI and DKI estimates in the skeletal muscle. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 233-246	4.4	24
34	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 285-299	4.4	100
33	MRI shows thickening and altered diffusion in the median and ulnar nerves in multifocal motor neuropathy. <i>European Radiology</i> , 2017 , 27, 2216-2224	8	27
32	Innovative Perspective: Gadolinium-Free Magnetic Resonance Imaging in Long-Term Follow-Up after Kidney Transplantation. <i>Frontiers in Physiology</i> , 2017 , 8, 296	4.6	7
31	Cartan Frames for Heart Wall Fiber Motion. <i>Lecture Notes in Computer Science</i> , 2017 , 32-41	0.9	1
30	Denosing Moving Heart Wall Fibers Using Cartan Frames. <i>Lecture Notes in Computer Science</i> , 2017 , 672-689		
29	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
28	A novel diffusion-tensor MRI approach for skeletal muscle fascicle length measurements. <i>Physiological Reports</i> , 2016 , 4, e13012	2.6	19
27	In Vivo Reconstruction of Lumbar Erector Spinae Architecture Using Diffusion Tensor MRI. <i>Clinical Spine Surgery</i> , 2016 , 29, E139-45	1.8	8
26	Diffusion tensor imaging of peripheral nerves in non-fixed post-mortem subjects. <i>Forensic Science International</i> , 2016 , 263, 139-146	2.6	12
25	DCE-MRI and IVIM-MRI of rabbit Vx2 tumors treated with MR-HIFU-induced mild hyperthermia. <i>Journal of Therapeutic Ultrasound</i> , 2016 , 4, 9		11
24	DTI Analysis Methods: Region of Interest Analysis 2016 , 175-182		12
23	Tractography-based connectomes are dominated by false-positive connections 2016 ,		21
22	SP224TRIEXPONENTIAL APPROACH FOR INTRAVOXEL INCOHERENT MOTION ANALYSIS OF MULTI-VALUE DIFFUSION WEIGHTED MRI DATA FOLLOWS GFR CHANGES IN HEALTHY HUMANS. <i>Nephrology Dialysis Transplantation</i> , 2016 , 31, i161-i161	4.3	
21	Minimizing the Acquisition Time for Intravoxel Incoherent Motion Magnetic Resonance Imaging Acquisitions in the Liver and Pancreas. <i>Investigative Radiology</i> , 2016 , 51, 211-20	10.1	28

20	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
19	Whole heart DTI using asymmetric bipolar diffusion gradients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	12
18	Evaluation of skeletal muscle DTI in patients with duchenne muscular dystrophy. <i>NMR in Biomedicine</i> , 2015 , 28, 1589-97	4.4	71
17	Diffusion tensor imaging of the auditory nerve in patients with long-term single-sided deafness. <i>Hearing Research</i> , 2015 , 323, 1-8	3.9	18
16	Endogenous contrast MRI of cardiac fibrosis: beyond late gadolinium enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1181-9	5.6	24
15	Muscle changes detected with diffusion-tensor imaging after long-distance running. <i>Radiology</i> , 2015 , 274, 548-62	20.5	88
14	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
13	Diffusion tensor magnetic resonance imaging and fiber tractography of the sacral plexus in children with spina bifida. <i>Journal of Urology</i> , 2014 , 192, 927-33	2.5	15
12	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
11	Investigating the non-linearity of the BOLD cerebrovascular reactivity response to targeted hypo/hypercapnia at 7T. <i>NeuroImage</i> , 2014 , 98, 296-305	7.9	51
10	Endogenous assessment of chronic myocardial infarction with T(1) mapping in patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 104	6.9	19
9	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
8	Diffusion tensor imaging and fiber tractography for the visualization of the female pelvic floor. <i>Clinical Anatomy</i> , 2013 , 26, 110-4	2.5	18
7	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
6	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
5	Architectural configuration and microstructural properties of the sacral plexus: a diffusion tensor MRI and fiber tractography study. <i>NeuroImage</i> , 2012 , 62, 1792-9	7.9	53
4	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
3	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

2	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
1	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: chronicles of the MEMENTO challenge		2