

# Julian A Luetkens

## List of Publications by Citations

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98  
papers

1,344  
citations

20  
h-index

34  
g-index

106  
ext. papers

1,910  
ext. citations

6  
avg, IF

4.62  
L-index

#	Paper	IF	Citations
98	Acute myocarditis: multiparametric cardiac MR imaging. <i>Radiology</i> , <b>2014</b> , 273, 383-92	20.5	97
97	Incremental value of quantitative CMR including parametric mapping for the diagnosis of acute myocarditis. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2016</b> , 17, 154-61	4.1	93
96	Fat-free muscle mass in magnetic resonance imaging predicts acute-on-chronic liver failure and survival in decompensated cirrhosis. <i>Hepatology</i> , <b>2018</b> , 67, 1014-1026	11.2	81
95	Gradient Spin Echo (GraSE) imaging for fast myocardial T2 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 12	6.9	79
94	Comprehensive Cardiac Magnetic Resonance for Short-Term Follow-Up in Acute Myocarditis. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5,	6	58
93	Cardiac Magnetic Resonance Reveals Signs of Subclinical Myocardial Inflammation in Asymptomatic HIV-Infected Patients. <i>Circulation: Cardiovascular Imaging</i> , <b>2016</b> , 9, e004091	3.9	58
92	Diffuse Myocardial Inflammation in COVID-19 Associated Myocarditis Detected by Multiparametric Cardiac Magnetic Resonance Imaging. <i>Circulation: Cardiovascular Imaging</i> , <b>2020</b> , 13, e010897	3.9	57
91	Quantification of Liver Fibrosis at T1 and T2 Mapping with Extracellular Volume Fraction MRI: Preclinical Results. <i>Radiology</i> , <b>2018</b> , 288, 748-754	20.5	53
90	Comparison of Original and 2018 Lake Louise Criteria for Diagnosis of Acute Myocarditis: Results of a Validation Cohort. <i>Radiology: Cardiothoracic Imaging</i> , <b>2019</b> , 1, e190010	8.3	52
89	Quantification of fat and skeletal muscle tissue at abdominal computed tomography: associations between single-slice measurements and total compartment volumes. <i>Abdominal Radiology</i> , <b>2019</b> , 44, 1907-1916	3	36
88	Feature-tracking myocardial strain analysis in acute myocarditis: diagnostic value and association with myocardial oedema. <i>European Radiology</i> , <b>2017</b> , 27, 4661-4671	8	32
87	Physical Properties of Venous Stents: An Experimental Comparison. <i>CardioVascular and Interventional Radiology</i> , <b>2018</b> , 41, 942-950	2.7	32
86	Respiratory motion artefacts in dynamic liver MRI: a comparison using gadoxetate disodium and gadobutrol. <i>European Radiology</i> , <b>2015</b> , 25, 3207-13	8	31
85	3D-Dixon MRI based volumetry of peri- and epicardial fat. <i>International Journal of Cardiovascular Imaging</i> , <b>2016</b> , 32, 291-299	2.5	27
84	Diffusion-weighted magnetic resonance imaging predicts survival in patients with liver-predominant metastatic colorectal cancer shortly after selective internal radiation therapy. <i>European Radiology</i> , <b>2017</b> , 27, 966-975	8	23
83	The Achilles tendon is mechanosensitive in older adults: adaptations following 14 weeks versus 1.5 years of cyclic strain exercise. <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 1008-1018	3	23
82	Body composition analysis using CT and MRI: intra-individual intermodal comparison of muscle mass and myosteatosis. <i>Scientific Reports</i> , <b>2020</b> , 10, 11765	4.9	23

81	Fat-free muscle area measured by magnetic resonance imaging predicts overall survival of patients undergoing radioembolization of colorectal cancer liver metastases. <i>European Radiology</i> , <b>2019</b> , 29, 4709-4717	8	22
80	Proton density fat fraction (PDFF) MRI for differentiation of benign and malignant vertebral lesions. <i>European Radiology</i> , <b>2018</b> , 28, 2397-2405	8	22
79	Proton density fat fraction (PDFF) MR imaging for differentiation of acute benign and neoplastic compression fractures of the spine. <i>European Radiology</i> , <b>2018</b> , 28, 5001-5009	8	20
78	Proton density fat fraction MRI of vertebral bone marrow: Accuracy, repeatability, and reproducibility among readers, field strengths, and imaging platforms. <i>Journal of Magnetic Resonance Imaging</i> , <b>2019</b> , 50, 1762-1772	5.6	19
77	Quantitative liver MRI including extracellular volume fraction for non-invasive quantification of liver fibrosis: a prospective proof-of-concept study. <i>Gut</i> , <b>2018</b> , 67, 593-594	19.2	19
76	The effects of extracellular contrast agent (Gadobutrol) on the precision and reproducibility of cardiovascular magnetic resonance feature tracking. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 30	6.9	19
75	Performance of a Deep-Learning Neural Network to Detect Intracranial Aneurysms from 3D TOF-MRA Compared to Human Readers. <i>Clinical Neuroradiology</i> , <b>2020</b> , 30, 591-598	2.7	19
74	Left and right ventricular strain in the course of acute myocarditis: a cardiovascular magnetic resonance study. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , <b>2018</b> , 190, 722-732	2.3	16
73	Prognostic value of pretreatment diffusion-weighted magnetic resonance imaging for outcome prediction of colorectal cancer liver metastases undergoing 90Y-microsphere radioembolization. <i>Journal of Cancer Research and Clinical Oncology</i> , <b>2017</b> , 143, 1531-1541	4.9	15
72	Fully Automated Segmentation of Connective Tissue Compartments for CT-Based Body Composition Analysis: A Deep Learning Approach. <i>Investigative Radiology</i> , <b>2020</b> , 55, 357-366	10.1	15
71	Effects of a 24-hr-shift-related short-term sleep deprivation on cardiac function: A cardiac magnetic resonance-based study. <i>Journal of Sleep Research</i> , <b>2019</b> , 28, e12665	5.8	15
70	Quantitative evaluation of T2* relaxation times for the differentiation of acute benign and malignant vertebral body fractures. <i>European Journal of Radiology</i> , <b>2018</b> , 108, 59-65	4.7	15
69	Cardiac magnetic resonance using late gadolinium enhancement and atrial T1 mapping predicts poor outcome in patients with atrial fibrillation after catheter ablation therapy. <i>Scientific Reports</i> , <b>2018</b> , 8, 13618	4.9	15
68	Yttrium-90 radioembolization for hepatocellular carcinoma: Outcome prediction with MRI derived fat-free muscle area. <i>European Journal of Radiology</i> , <b>2020</b> , 125, 108889	4.7	14
67	Influence of observer experience on cardiac magnetic resonance strain measurements using feature tracking and conventional tagging. <i>IJC Heart and Vasculature</i> , <b>2018</b> , 18, 46-51	2.4	14
66	Multiparametric cardiovascular magnetic resonance imaging in acute myocarditis: a comparison of different measurement approaches. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 54	6.9	12
65	Virtual Monoenergetic Images From a Novel Dual-Layer Spectral Detector Computed Tomography Scanner in Portal Venous Phase: Adjusted Window Settings Depending on Assessment Focus Are Essential for Image Interpretation. <i>Journal of Computer Assisted Tomography</i> , <b>2018</b> , 42, 350-356	2.2	12
64	3D-Dixon cardiac magnetic resonance detects an increased epicardial fat volume in hypertensive men with myocardial infarction. <i>European Journal of Radiology</i> , <b>2016</b> , 85, 936-42	4.7	12

63	Myocardial Fibrosis and Inflammation in Liver Cirrhosis: MRI Study of the Liver-Heart Axis. <i>Radiology</i> , <b>2020</b> , 297, 51-61	20.5	12
62	Poly-energetic and virtual mono-energetic images from a novel dual-layer spectral detector CT: optimization of window settings is crucial to improve subjective image quality in abdominal CT angiographies. <i>Abdominal Radiology</i> , <b>2018</b> , 43, 742-750	3	12
61	Quantitative assessment of systolic and diastolic function in patients with LGE negative systemic amyloidosis using CMR. <i>International Journal of Cardiology</i> , <b>2017</b> , 232, 336-341	3.2	11
60	Cardiac magnetic resonance including parametric mapping in acute Takotsubo syndrome: Preliminary findings. <i>European Journal of Radiology</i> , <b>2019</b> , 113, 217-224	4.7	10
59	Opportunistic Computed Tomography Imaging for the Assessment of Fatty Muscle Fraction Predicts Outcome in Patients Undergoing Transcatheter Aortic Valve Replacement. <i>Circulation</i> , <b>2020</b> , 141, 234-236	16.7	10
58	Comprehensive Cardiac Magnetic Resonance for Assessment of Cardiac Involvement in Myotonic Muscular Dystrophy Type 1 and 2 Without Known Cardiovascular Disease. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e009100	3.9	9
57	Risk factors for failed closed reduction in dislocated developmental dysplastic hips. <i>International Orthopaedics</i> , <b>2020</b> , 44, 2343-2348	3.8	8
56	Cerebral white matter lesion burden is associated with the degree of aortic valve calcification and predicts peri-procedural cerebrovascular events in patients undergoing transcatheter aortic valve implantation (TAVI). <i>Catheterization and Cardiovascular Interventions</i> , <b>2018</b> , 91, 774-782	2.7	8
55	Cardiac MRI in Suspected Acute COVID-19 Myocarditis. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e200628	2.9	8
54	Myocarditis Following COVID-19 Vaccination. <i>Radiology</i> , <b>2021</b> , 301, E378-E379	20.5	8
53	Influence of hydration status on cardiovascular magnetic resonance myocardial T1 and T2 relaxation time assessment: an intraindividual study in healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 22, 63	6.9	7
52	Safety and Feasibility of Magnetic Resonance Imaging of the Brain at 1.5 Tesla in Patients with Temporary Transmyocardial Pacing Leads. <i>Thoracic and Cardiovascular Surgeon</i> , <b>2019</b> , 67, 86-91	1.6	7
51	Comparison of magnetic resonance feature tracking with CSPAMM HARP for the assessment of global and regional layer specific strain. <i>International Journal of Cardiology</i> , <b>2017</b> , 244, 340-346	3.2	6
50	Quantification of liver fibrosis: extracellular volume fraction using an MRI bolus-only technique in a rat animal model. <i>European Radiology Experimental</i> , <b>2019</b> , 3, 22	4.5	6
49	Epicardial fat, left ventricular strain, and T1-relaxation times in obese individuals with a normal ejection fraction. <i>Acta Radiologica</i> , <b>2019</b> , 60, 1251-1257	2	6
48	Cardiac magnetic resonance based evaluation of aortic stiffness and epicardial fat volume in patients with hypertension, diabetes mellitus, and myocardial infarction. <i>Acta Radiologica</i> , <b>2018</b> , 59, 65-71	7	6
47	Pulmonary sarcoidosis shortly after spinal tuberculosis infection: a diagnostic challenge. <i>BMJ Case Reports</i> , <b>2014</b> , 2014,	0.9	4
46	Non-invasive assessment of liver fibrosis in autoimmune hepatitis: Diagnostic value of liver magnetic resonance parametric mapping including extracellular volume fraction. <i>Abdominal Radiology</i> , <b>2021</b> , 46, 2458-2466	3	4

45	Detection of liver cirrhosis in standard T2-weighted MRI using deep transfer learning. <i>European Radiology</i> , <b>2021</b> , 31, 8807-8815	8	4
44	Magnetic resonance parametric mapping of the spleen for non-invasive assessment of portal hypertension. <i>European Radiology</i> , <b>2021</b> , 31, 85-93	8	4
43	Cardiac MRI in Patients with Prolonged Cardiorespiratory Symptoms after Mild to Moderate COVID-19. <i>Radiology</i> , <b>2021</b> , 301, E419-E425	20.5	4
42	Diagnostic Accuracy of Quantitative Imaging Biomarkers in the Differentiation of Benign and Malignant Vertebral Lesions : Combination of Diffusion-Weighted and Proton Density Fat Fraction Spine MRI. <i>Clinical Neuroradiology</i> , <b>2021</b> , 31, 1059-1070	2.7	3
41	Impact of transjugular intrahepatic portosystemic shunt creation on the central lymphatic system in liver cirrhosis. <i>Scientific Reports</i> , <b>2021</b> , 11, 7065	4.9	3
40	Feasibility of CT-derived myocardial strain measurement in patients with advanced cardiac valve disease. <i>Scientific Reports</i> , <b>2021</b> , 11, 8793	4.9	3
39	What you see is what you get: giant extra-appendage left atrial thrombus after left atrial appendage occlusion for persisting left atrial appendage thrombus. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2020</b> , 21, 465	4.1	2
38	CT fatty muscle fraction as a new parameter for muscle quality assessment predicts outcome in venovenous extracorporeal membrane oxygenation. <i>Scientific Reports</i> , <b>2020</b> , 10, 22391	4.9	2
37	Alteration of contrast enhanced ultrasound (CEUS) of hepatocellular carcinoma in patients with cirrhosis and transjugular intrahepatic portosystemic shunt (TIPS). <i>Scientific Reports</i> , <b>2020</b> , 10, 20682	4.9	2
36	Diagnostic value of magnetic resonance parametric mapping for non-invasive assessment of liver fibrosis in patients with primary sclerosing cholangitis. <i>BMC Medical Imaging</i> , <b>2021</b> , 21, 65	2.9	2
35	Fast 3D Isotropic Proton Density-Weighted Fat-Saturated MRI of the Knee at 1.5 T with Compressed Sensing: Comparison with Conventional Multiplanar 2D Sequences. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , <b>2021</b> , 193, 813-821	2.3	2
34	End-to-end automated body composition analyses with integrated quality control for opportunistic assessment of sarcopenia in CT. <i>European Radiology</i> , <b>2021</b> , 1	8	2
33	Proton Density Fat Fraction Spine MRI for Differentiation of Erosive Vertebral Endplate Degeneration and Infectious Spondylitis.. <i>Diagnostics</i> , <b>2021</b> , 12,	3.8	2
32	Deep Learning-Based Body Composition Analysis Predicts Outcome in Melanoma Patients Treated with Immune Checkpoint Inhibitors.. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	2
31	Massive aortic valve thrombosis with free floating thrombus following transcatheter aortic valve replacement. <i>European Heart Journal</i> , <b>2017</b> , 38, 1855	9.5	1
30	Catheter-Directed Thrombectomy for Highly Symptomatic Patients with Iliofemoral Deep Venous Thrombosis not Responsive to Conservative Treatment. <i>CardioVascular and Interventional Radiology</i> , <b>2020</b> , 43, 556-564	2.7	1
29	Characterization of Severe Arterial Phase Respiratory Motion Artifact on Gadoxetate Disodium-Enhanced MRI - Assessment of Interrater Agreement and Reliability. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , <b>2018</b> , 190, 341-347	2.3	1
28	The effects of flip angle optimization on the precision and reproducibility of feature tracking derived strain assessment in contrast enhanced bSSFP cine images. <i>European Journal of Radiology</i> , <b>2018</b> , 102, 9-14	4.7	1

27	Flip angle optimization for balanced SSFP: Cardiac cine imaging following the application of standard extracellular contrast agent (gadobutrol). <i>Journal of Magnetic Resonance Imaging</i> , <b>2018</b> , 47, 255-261	5.6	1
26	Feature-tracking-based strain analysis - a comparison of tracking algorithms. <i>Polish Journal of Radiology</i> , <b>2020</b> , 85, e97-e103	1.6	1
25	Going to Extremes of Lung Physiology-Deep Breath-Hold Diving. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 710429.6	2.6	1
24	Computed tomography pulmonary angiograms using a novel dual-layer spectral detector: Adjusted window settings are essential for diagnostic image quality. <i>Medicine (United States)</i> , <b>2019</b> , 98, e16606	1.8	1
23	Extended cardiac magnetic resonance imaging with retained temporary transmucocardial pacing lead. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 663-664	2.5	1
22	Abusive head trauma: experience improves diagnosis. <i>Neuroradiology</i> , <b>2021</b> , 63, 417-430	3.2	1
21	1.5 vs 3 Tesla Magnetic Resonance Imaging: A Review of Favorite Clinical Applications for Both Field Strengths-Part 2. <i>Investigative Radiology</i> , <b>2021</b> , 56, 692-704	10.1	1
20	Cardiac MRI Depicts Immune Checkpoint Inhibitor-induced Myocarditis: A Prospective Study. <i>Radiology</i> , <b>2021</b> , 301, 602-609	20.5	1
19	Cardiac MRI in Suspected Acute Myocarditis After COVID-19 mRNA Vaccination.. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , <b>2022</b> ,	2.3	1
18	Bleeding management in computed tomography-guided liver biopsies by biopsy tract plugging with gelatin sponge slurry.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24506	4.9	1
17	Combination of Fat-Free Muscle Index and Total Spontaneous Portosystemic Shunt Area Identifies High-Risk Cirrhosis Patients.. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 831005	4.9	1
16	Comparison of different ROI analysis methods for liver lesion characterization with simplified intravoxel incoherent motion (IVIM). <i>Scientific Reports</i> , <b>2021</b> , 11, 22752	4.9	0
15	Free-breathing high resolution modified Dixon steady-state angiography with compressed sensing for the assessment of the thoracic vasculature in pediatric patients with congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 117	6.9	0
14	MRI Assessment of Chylous and Nonchylous Effusions: Use of Multipoint Dixon Fat Quantification. <i>Radiology</i> , <b>2020</b> , 296, 698-705	20.5	0
13	Synthetic extracellular volume fraction without hematocrit sampling for hepatic applications. <i>Abdominal Radiology</i> , <b>2021</b> , 46, 4637-4646	3	0
12	Myocardial Mapping in Systemic Sarcoidosis: A Comparison of Two Measurement Approaches. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , <b>2021</b> , 193, 68-76	2.3	0
11	Cardiac Myeloid Sarcoma: Multimodal Imaging and Histopathologic Findings. <i>Radiology: Cardiothoracic Imaging</i> , <b>2021</b> , 3, e200540	8.3	0
10	Free-breathing non-contrast flow-independent cardiovascular magnetic resonance angiography using cardiac gated, magnetization-prepared 3D Dixon method: assessment of thoracic vasculature in congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 91	6.9	0

9	Simplified intravoxel incoherent motion diffusion-weighted MRI of liver lesions: feasibility of combined two-colour index maps. <i>European Radiology Experimental</i> , <b>2021</b> , 5, 33	4.5	○
8	Multiparametric cardiac magnetic resonance imaging in pediatric and adolescent patients with acute myocarditis. <i>Pediatric Radiology</i> , <b>2021</b> , 51, 2470-2480	2.8	○
7	Diagnostic Benefit of MRI for Exclusion of Ligamentous Injury in Patients with Lateral Atlantodental Interval Asymmetry at Initial Trauma CT. <i>Radiology</i> , <b>2021</b> , 300, 633-640	20.5	○
6	Cranial stent position is independently associated with the development of TIPS dysfunction.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3559	4.9	○
5	Deep learning supports the differentiation of alcoholic and other-than-alcoholic cirrhosis based on MRI.. <i>Scientific Reports</i> , <b>2022</b> , 12, 8297	4.9	○
4	When past becomes prologue: extremely late mechanical complication after implantation of an atrial septal occluder device. <i>European Heart Journal</i> , <b>2019</b> , 40, 3657	9.5	
3	Association between single-slice and whole heart measurements of epicardial and pericardial fat in cardiac MRI. <i>Acta Radiologica</i> , <b>2021</b> , 2841851211054192	2	
2	Technik und klinische Bedeutung des kardialen Mappings [Was der Radiologe wissen sollte. <i>Radiologie Up2date</i> , <b>2021</b> , 21, 135-152	0.1	
1	In Vitro Evaluation of Acrylic Adhesives in Lymphatic Fluids-Influence of Glue Type and Procedural Parameters. <i>Biomedicines</i> , <b>2022</b> , 10, 1195	4.8	