

Julian A Luetkens

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,362
citations

236833

25
h-index

254106

43
g-index

106
all docs

106
docs citations

106
times ranked

3241
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute Myocarditis: Multiparametric Cardiac MR Imaging. <i>Radiology</i> , 2014, 273, 383-392.	3.6	130
2	Incremental value of quantitative CMR including parametric mapping for the diagnosis of acute myocarditis. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 154-161.	0.5	127
3	Fat-free muscle mass in magnetic resonance imaging predicts acute-on-chronic liver failure and survival in decompensated cirrhosis. <i>Hepatology</i> , 2018, 67, 1014-1026.	3.6	119
4	Comparison of Original and 2018 Lake Louise Criteria for Diagnosis of Acute Myocarditis: Results of a Validation Cohort. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190010.	0.9	118
5	Gradient Spin Echo (GraSE) imaging for fast myocardial T2 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 12.	1.6	113
6	Quantification of Liver Fibrosis at T1 and T2 Mapping with Extracellular Volume Fraction MRI: Preclinical Results. <i>Radiology</i> , 2018, 288, 748-754.	3.6	96
7	Comprehensive Cardiac Magnetic Resonance for Short-Term Follow-Up in Acute Myocarditis. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	86
8	Cardiac Magnetic Resonance Reveals Signs of Subclinical Myocardial Inflammation in Asymptomatic HIV-Infected Patients. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, e004091.	1.3	83
9	Diffuse Myocardial Inflammation in COVID-19 Associated Myocarditis Detected by Multiparametric Cardiac Magnetic Resonance Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e010897.	1.3	79
10	Quantification of fat and skeletal muscle tissue at abdominal computed tomography: associations between single-slice measurements and total compartment volumes. <i>Abdominal Radiology</i> , 2019, 44, 1907-1916.	1.0	63
11	Physical Properties of Venous Stents: An Experimental Comparison. <i>CardioVascular and Interventional Radiology</i> , 2018, 41, 942-950.	0.9	62
12	Body composition analysis using CT and MRI: intra-individual intermodal comparison of muscle mass and myosteatorsis. <i>Scientific Reports</i> , 2020, 10, 11765.	1.6	53
13	Feature-tracking myocardial strain analysis in acute myocarditis: diagnostic value and association with myocardial oedema. <i>European Radiology</i> , 2017, 27, 4661-4671.	2.3	50
14	3D-Dixon MRI based volumetry of peri- and epicardial fat. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 291-299.	0.7	41
15	Performance of a Deep-Learning Neural Network to Detect Intracranial Aneurysms from 3D TOF-MRA Compared to Human Readers. <i>Clinical Neuroradiology</i> , 2020, 30, 591-598.	1.0	40
16	Proton density fat fraction (PDFF) MRI for differentiation of benign and malignant vertebral lesions. <i>European Radiology</i> , 2018, 28, 2397-2405.	2.3	37
17	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> , 2019, 50, 1762-1772.	1.9	37
18	Fully Automated Segmentation of Connective Tissue Compartments for CT-Based Body Composition Analysis. <i>Investigative Radiology</i> , 2020, 55, 357-366.	3.5	36

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19	Respiratory motion artefacts in dynamic liver MRI: a comparison using gadoxetate disodium and gadobutrol. <i>European Radiology</i> , 2015, 25, 3207-3213.	2.3	35
20	Myocardial Fibrosis and Inflammation in Liver Cirrhosis: MRI Study of the Liver-Heart Axis. <i>Radiology</i> , 2020, 297, 51-61.	3.6	34
21	Myocarditis Following COVID-19 Vaccination. <i>Radiology</i> , 2021, 301, E378-E379.	3.6	33
22	Cardiac MRI in Patients with Prolonged Cardiorespiratory Symptoms after Mild to Moderate COVID-19. <i>Radiology</i> , 2021, 301, E419-E425.	3.6	31
23	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> , 2018, 190, 722-732.	0.7	30
24	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> , 2017, 220, 1008-1018.	0.8	29
25	Proton density fat fraction (PDFF) MR imaging for differentiation of acute benign and neoplastic compression fractures of the spine. <i>European Radiology</i> , 2018, 28, 5001-5009.	2.3	27
26	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> , 2019, 29, 4709-4717.	2.3	26
27	Cardiac MRI in Suspected Acute COVID-19 Myocarditis. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200628.	0.9	26
28	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> , 2017, 27, 966-975.	2.3	25
29	Quantitative liver MRI including extracellular volume fraction for non-invasive quantification of liver fibrosis: a prospective proof-of-concept study. <i>Gut</i> , 2018, 67, 593-594.	6.1	25
30	Opportunistic Computed Tomography Imaging for the Assessment of Fatty Muscle Fraction Predicts Outcome in Patients Undergoing Transcatheter Aortic Valve Replacement. <i>Circulation</i> , 2020, 141, 234-236.	1.6	25
31	Quantitative evaluation of T2* relaxation times for the differentiation of acute benign and malignant vertebral body fractures. <i>European Journal of Radiology</i> , 2018, 108, 59-65.	1.2	24
32	Influence of observer experience on cardiac magnetic resonance strain measurements using feature tracking and conventional tagging. <i>IJC Heart and Vasculature</i> , 2018, 18, 46-51.	0.6	24
33	Effects of a 24-hour shift-related short-term sleep deprivation on cardiac function: A cardiac magnetic resonance-based study. <i>Journal of Sleep Research</i> , 2019, 28, e12665.	1.7	24
34	Yttrium-90 radioembolization for hepatocellular carcinoma: Outcome prediction with MRI derived fat-free muscle area. <i>European Journal of Radiology</i> , 2020, 125, 108889.	1.2	24
35	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> , 2016, 18, 30.	1.6	22
36	Cardiac MRI Depicts Immune Checkpoint Inhibitor-induced Myocarditis: A Prospective Study. <i>Radiology</i> , 2021, 301, 602-609.	3.6	22

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37	3D-Dixon cardiac magnetic resonance detects an increased epicardial fat volume in hypertensive men with myocardial infarction. <i>European Journal of Radiology</i> , 2016, 85, 936-942.	1.2	21
38	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> , 2018, 8, 13618.	1.6	21
39	Detection of liver cirrhosis in standard T2-weighted MRI using deep transfer learning. <i>European Radiology</i> , 2021, 31, 8807-8815.	2.3	21
40	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> , 2017, 143, 1531-1541.	1.2	20
41	End-to-end automated body composition analyses with integrated quality control for opportunistic assessment of sarcopenia in CT. <i>European Radiology</i> , 2022, 32, 3142-3151.	2.3	20
42	Quantitative assessment of systolic and diastolic function in patients with LGE negative systemic amyloidosis using CMR. <i>International Journal of Cardiology</i> , 2017, 232, 336-341.	0.8	19
43	Multiparametric cardiovascular magnetic resonance imaging in acute myocarditis: a comparison of different measurement approaches. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 54.	1.6	19
44	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> , 2018, 43, 742-750.	1.0	18
45	Cerebral white matter lesion burden is associated with the degree of aortic valve calcification and predicts periprocedural cerebrovascular events in patients undergoing transcatheter aortic valve implantation (TAVI). <i>Catheterization and Cardiovascular Interventions</i> , 2018, 91, 774-782.	0.7	16
46	Cardiac magnetic resonance including parametric mapping in acute Takotsubo syndrome: Preliminary findings. <i>European Journal of Radiology</i> , 2019, 113, 217-224.	1.2	15
47	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> , 2018, 42, 350-356.	0.5	14
48	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> , 2020, 22, 63.	1.6	14
49	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> , 2019, 12, e009100.	1.3	13
50	Deep Learning-Based Body Composition Analysis Predicts Outcome in Melanoma Patients Treated with Immune Checkpoint Inhibitors. <i>Diagnostics</i> , 2021, 11, 2314.	1.3	13
51	Deep learning supports the differentiation of alcoholic and other-than-alcoholic cirrhosis based on MRI. <i>Scientific Reports</i> , 2022, 12, 8297.	1.6	13
52	Quantification of liver fibrosis: extracellular volume fraction using an MRI bolus-only technique in a rat animal model. <i>European Radiology Experimental</i> , 2019, 3, 22.	1.7	12
53	Epicardial fat, left ventricular strain, and T1-relaxation times in obese individuals with a normal ejection fraction. <i>Acta Radiologica</i> , 2019, 60, 1251-1257.	0.5	12
54	Magnetic resonance parametric mapping of the spleen for non-invasive assessment of portal hypertension. <i>European Radiology</i> , 2021, 31, 85-93.	2.3	12

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55	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> , 2021, 46, 2458-2466.	1.0	11
56	Risk factors for failed closed reduction in dislocated developmental dysplastic hips. <i>International Orthopaedics</i> , 2020, 44, 2343-2348.	0.9	11
57	Feasibility of CT-derived myocardial strain measurement in patients with advanced cardiac valve disease. <i>Scientific Reports</i> , 2021, 11, 8793.	1.6	11
58	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> , 2018, 59, 65-71.	0.5	10
59	Multiparametric cardiac magnetic resonance imaging in pediatric and adolescent patients with acute myocarditis. <i>Pediatric Radiology</i> , 2021, 51, 2470-2480.	1.1	10
60	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> , 2019, 67, 086-091.	0.4	9
61	Diagnostic Accuracy of Quantitative Imaging Biomarkers in the Differentiation of Benign and Malignant Vertebral Lesions. <i>Clinical Neuroradiology</i> , 2021, 31, 1059-1070.	1.0	9
62	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> , 2021, 23, 91.	1.6	9
63	CT fatty muscle fraction as a new parameter for muscle quality assessment predicts outcome in venovenous extracorporeal membrane oxygenation. <i>Scientific Reports</i> , 2020, 10, 22391.	1.6	8
64	Alteration of contrast enhanced ultrasound (CEUS) of hepatocellular carcinoma in patients with cirrhosis and transjugular intrahepatic portosystemic shunt (TIPS). <i>Scientific Reports</i> , 2020, 10, 20682.	1.6	7
65	Layer-specific Strain Analysis with Cardiac MRI Feature Tracking in Acute Myocarditis. <i>Radiology: Cardiothoracic Imaging</i> , 2022, 4, .	0.9	7
66	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> , 2017, 244, 340-346.	0.8	6
67	Abusive head trauma: experience improves diagnosis. <i>Neuroradiology</i> , 2021, 63, 417-430.	1.1	6
68	Impact of transjugular intrahepatic portosystemic shunt creation on the central lymphatic system in liver cirrhosis. <i>Scientific Reports</i> , 2021, 11, 7065.	1.6	6
69	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> , 2021, 21, 65.	1.4	6
70	1.5 vs 3 Tesla Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2021, 56, 692-704.	3.5	6
71	Cardiac MRI in Suspected Acute Myocarditis After COVID-19 mRNA Vaccination. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2022, 194, 1003-1011.	0.7	6
72	Bleeding management in computed tomography-guided liver biopsies by biopsy tract plugging with gelatin sponge slurry. <i>Scientific Reports</i> , 2021, 11, 24506.	1.6	5

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73	Proton Density Fat Fraction Spine MRI for Differentiation of Erosive Vertebral Endplate Degeneration and Infectious Spondylitis. <i>Diagnostics</i> , 2022, 12, 78.	1.3	5
74	MRI Assessment of Chylous and Nonchylous Effusions: Use of Multipoint Dixon Fat Quantification. <i>Radiology</i> , 2020, 296, 698-705.	3.6	4
75	Catheter-Directed Thrombectomy for Highly Symptomatic Patients with Iliofemoral Deep Venous Thrombosis not Responsive to Conservative Treatment. <i>CardioVascular and Interventional Radiology</i> , 2020, 43, 556-564.	0.9	4
76	Going to Extremes of Lung Physiology—Deep Breath-Hold Diving. <i>Frontiers in Physiology</i> , 2021, 12, 710429.	1.3	4
77	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> , 2021, 23, 117.	1.6	4
78	Pulmonary sarcoidosis shortly after spinal tuberculosis infection: a diagnostic challenge. <i>BMJ Case Reports</i> , 2014, 2014, bcr2013203333-bcr2013203333.	0.2	4
79	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> , 2018, 102, 9-14.	1.2	3
80	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> , 2018, 47, 255-261.	1.9	3
81	Myocardial Mapping in Systemic Sarcoidosis: A Comparison of Two Measurement Approaches. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2021, 193, 68-76.	0.7	3
82	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> , 2021, 193, 813-821.	0.7	3
83	Synthetic extracellular volume fraction without hematocrit sampling for hepatic applications. <i>Abdominal Radiology</i> , 2021, 46, 4637-4646.	1.0	3
84	Association between single-slice and whole heart measurements of epicardial and pericardial fat in cardiac MRI. <i>Acta Radiologica</i> , 2023, 64, 2229-2237.	0.5	3
85	Comparison of different ROI analysis methods for liver lesion characterization with simplified intravoxel incoherent motion (IVIM). <i>Scientific Reports</i> , 2021, 11, 22752.	1.6	3
86	Peripartum Cardiomyopathy: Diagnostic and Prognostic Value of Cardiac Magnetic Resonance in the Acute Stage. <i>Diagnostics</i> , 2022, 12, 378.	1.3	3
87	Combination of Fat-Free Muscle Index and Total Spontaneous Portosystemic Shunt Area Identifies High-Risk Cirrhosis Patients. <i>Frontiers in Medicine</i> , 2022, 9, 831005.	1.2	3
88	“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> , 2019, 21, 465.	0.5	2
89	Diagnostic Benefit of MRI for Exclusion of Ligamentous Injury in Patients with Lateral Atlantodental Interval Asymmetry at Initial Trauma CT. <i>Radiology</i> , 2021, 300, 633-640.	3.6	2
90	Cranial stent position is independently associated with the development of TIPS dysfunction. <i>Scientific Reports</i> , 2022, 12, 3559.	1.6	2

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91	Effect of Contrast Agent Dose Reduction on Vascular Enhancement and Image Quality in Thoracoabdominal Dynamic 3-Dimensional Magnetic Resonance Angiography. <i>Investigative Radiology</i> , 2022, 57, 689-695.	3.5	2
92	Massive aortic valve thrombosis with free floating thrombus following transcatheter aortic valve replacement. <i>European Heart Journal</i> , 2017, 38, 1855-1855.	1.0	1
93	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> , 2018, 190, 341-347.	0.7	1
94	Computed tomography pulmonary angiograms using a novel dual-layer spectral detector. <i>Medicine (United States)</i> , 2019, 98, e16606.	0.4	1
95	Extended cardiac magnetic resonance imaging with retained temporary transmyocardial pacing lead. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 663-664.	0.7	1
96	Cardiac Myeloid Sarcoma: Multimodal Imaging and Histopathologic Findings. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200540.	0.9	1
97	Simplified intravoxel incoherent motion diffusion-weighted MRI of liver lesions: feasibility of combined two-colour index maps. <i>European Radiology Experimental</i> , 2021, 5, 33.	1.7	1
98	Feature-tracking-based strain analysis – a comparison of tracking algorithms. <i>Polish Journal of Radiology</i> , 2020, 85, 97-103.	0.5	1
99	Beyond the AJR: Cardiac PET/MRI for the Assessment of Myocardial Injury After COVID-19. <i>American Journal of Roentgenology</i> , 2022, , .	1.0	1
100	In Vitro Evaluation of Acrylic Adhesives in Lymphatic Fluids-Influence of Glue Type and Procedural Parameters. <i>Biomedicines</i> , 2022, 10, 1195.	1.4	1
101	Assessment of liver cirrhosis severity with extracellular volume fraction MRI. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
102	When past becomes prologue: extremely late mechanical complication after implantation of an atrial septal occluder device. <i>European Heart Journal</i> , 2019, 40, 3657-3657.	1.0	0