

Marcus R Makowski

List of Publications by Citations

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Version: 2024-04-23

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140
papers

1,651
citations

20
h-index

35
g-index

157
ext. papers

2,555
ext. citations

6.5
avg, IF

5.26
L-index

#	Paper	IF	Citations
140	Secure, privacy-preserving and federated machine learning in medical imaging. <i>Nature Machine Intelligence</i> , 2020 , 2, 305-311	22.5	162
139	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent. <i>Nature Medicine</i> , 2011 , 17, 383-8	50.5	147
138	The role of visceral adiposity in the severity of COVID-19: Highlights from a unicenter cross-sectional pilot study in Germany. <i>Metabolism: Clinical and Experimental</i> , 2020 , 110, 154317	12.7	89
137	Immunohistochemical Validation of PSMA Expression Measured by Ga-PSMA PET/CT in Primary Prostate Cancer. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 238-243	8.9	77
136	Biodistribution of [(68)Ga]PSMA-HBED-CC in Patients with Prostate Cancer: Characterization of Uptake in Normal Organs and Tumour Lesions. <i>Molecular Imaging and Biology</i> , 2016 , 18, 428-36	3.8	66
135	End-to-end privacy preserving deep learning on multi-institutional medical imaging. <i>Nature Machine Intelligence</i> , 2021 , 3, 473-484	22.5	43
134	Comparison of hybrid Ga-PSMA-PET/CT and Tc-DPD-SPECT/CT for the detection of bone metastases in prostate cancer patients: Additional value of morphologic information from low dose CT. <i>European Radiology</i> , 2018 , 28, 610-619	8	42
133	Noninvasive assessment of atherosclerotic plaque progression in ApoE ^{-/-} mice using susceptibility gradient mapping. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 295-303	3.9	41
132	In vivo assessment of aortic aneurysm wall integrity using elastin-specific molecular magnetic resonance imaging. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 679-89	3.9	39
131	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	39
130	Congenital heart disease: cardiovascular MR imaging by using an intravascular blood pool contrast agent. <i>Radiology</i> , 2011 , 260, 680-8	20.5	37
129	In vivo assessment of intraplaque and endothelial fibrin in ApoE ^{-/-} mice by molecular MRI. <i>Atherosclerosis</i> , 2012 , 222, 43-9	3.1	36
128	MR imaging of the arterial vessel wall: molecular imaging from bench to bedside. <i>Radiology</i> , 2013 , 269, 34-51	20.5	32
127	Three-dimensional imaging of the aortic vessel wall using an elastin-specific magnetic resonance contrast agent. <i>Investigative Radiology</i> , 2012 , 47, 438-44	10.1	31
126	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , 2021 , 4, 60	15.7	29
125	Renal cell carcinoma with venous extension: prediction of inferior vena cava wall invasion by MRI. <i>Cancer Imaging</i> , 2018 , 18, 17	5.6	28
124	Age- and Sex-dependent Frequency of Fat Metaplasia and Other Structural Changes of the Sacroiliac Joints in Patients without Axial Spondyloarthritis: A Retrospective, Cross-sectional MRI Study. <i>Journal of Rheumatology</i> , 2018 , 45, 915-921	4.1	25

123	Characterization of coronary atherosclerosis by magnetic resonance imaging. <i>Circulation</i> , 2013 , 128, 1244-55	16.7	25
122	Concurrent Molecular Magnetic Resonance Imaging of Inflammatory Activity and Extracellular Matrix Degradation for the Prediction of Aneurysm Rupture. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008707	3.9	22
121	Single-source dual-energy computed tomography for the assessment of bone marrow oedema in vertebral compression fractures: a prospective diagnostic accuracy study. <i>European Radiology</i> , 2019 , 29, 31-39	8	22
120	Image-Based Molecular Phenotyping of Pancreatic Ductal Adenocarcinoma. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	20
119	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , 2017 , 23, 150-164	11.5	19
118	[Ga]PSMA-HBED-CC Uptake in Osteolytic, Osteoblastic, and Bone Marrow Metastases of Prostate Cancer Patients. <i>Molecular Imaging and Biology</i> , 2017 , 19, 933-943	3.8	18
117	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. <i>The Lancet Digital Health</i> , 2021 , 3, e733-e744	14.4	17
116	Ga-PSMA-PET/CT for the evaluation of liver metastases in patients with prostate cancer. <i>Cancer Imaging</i> , 2019 , 19, 37	5.6	16
115	Molecular imaging of the extracellular matrix in the context of atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , 2017 , 113, 49-60	18.5	15
114	Disk injury in patients with vertebral fractures-a prospective diagnostic accuracy study using dual-energy computed tomography. <i>European Radiology</i> , 2019 , 29, 4495-4502	8	14
113	Strain-encoded cardiac magnetic resonance imaging: a new approach for fast estimation of left ventricular function. <i>BMC Cardiovascular Disorders</i> , 2019 , 19, 52	2.3	14
112	Prediction of Alzheimer's Dementia in Patients with Amnesic Mild Cognitive Impairment in Clinical Routine: Incremental Value of Biomarkers of Neurodegeneration and Brain Amyloidosis Added Stepwise to Cognitive Status. <i>Journal of Alzheimer's Disease</i> , 2018 , 61, 373-388	4.3	14
111	Molecular magnetic resonance imaging of atherosclerotic vessel wall disease. <i>European Radiology</i> , 2016 , 26, 910-20	8	13
110	Clinical Integration of Automated Processing for Brain Quantitative Susceptibility Mapping: Multi-Site Reproducibility and Single-Site Robustness. <i>Journal of Neuroimaging</i> , 2019 , 29, 689-698	2.8	13
109	Diagnostic performance of susceptibility-weighted magnetic resonance imaging for the detection of calcifications: A systematic review and meta-analysis. <i>Scientific Reports</i> , 2017 , 7, 15506	4.9	13
108	Ga-PSMA-PET/CT for the evaluation of pulmonary metastases and opacities in patients with prostate cancer. <i>Cancer Imaging</i> , 2018 , 18, 20	5.6	12
107	Ex vivo magnetic particle imaging of vascular inflammation in abdominal aortic aneurysm in a murine model. <i>Scientific Reports</i> , 2020 , 10, 12410	4.9	12
106	Highly accurate classification of chest radiographic reports using a deep learning natural language model pre-trained on 3.8 million text reports. <i>Bioinformatics</i> , 2021 , 36, 5255-5261	7.2	12

105	Assessment of intracranial meningioma-associated calcifications using susceptibility-weighted MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1177-1186	5.6	11
104	Quantitative biparametric analysis of hybrid F-FET PET/MR-neuroimaging for differentiation between treatment response and recurrent glioma. <i>Scientific Reports</i> , 2019 , 9, 14603	4.9	11
103	Contrast-enhanced ultrasound (CEUS) of cystic renal lesions in comparison to CT and MRI in a multicenter setting. <i>Clinical Hemorheology and Microcirculation</i> , 2020 , 75, 419-429	2.5	11
102	Detection of Sacroiliitis by Short-tau Inversion Recovery and T2-weighted Turbo Spin Echo Sequences: Results from the SIMACT Study. <i>Journal of Rheumatology</i> , 2019 , 46, 376-383	4.1	10
101	3D nonrigid motion correction for quantitative assessment of hepatic lesions in DCE-MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1753-1766	4.4	10
100	Noninvasive imaging of vascular permeability to predict the risk of rupture in abdominal aortic aneurysms using an albumin-binding probe. <i>Scientific Reports</i> , 2020 , 10, 3231	4.9	10
99	Matched-Pair Comparison of Ga-PSMA-11 and F-rhPSMA-7 PET/CT in Patients with Primary and Biochemical Recurrence of Prostate Cancer: Frequency of Non-Tumor-Related Uptake and Tumor Positivity. <i>Journal of Nuclear Medicine</i> , 2021 , 62, 1082-1088	8.9	10
98	Non-alcoholic fatty liver disease in underweight patients with inflammatory bowel disease: A case-control study. <i>PLoS ONE</i> , 2018 , 13, e0206450	3.7	10
97	Evaluation of sclerosis in Modic changes of the spine using susceptibility-weighted magnetic resonance imaging. <i>European Journal of Radiology</i> , 2017 , 88, 148-154	4.7	9
96	Contrast-enhanced magnetic resonance imaging for the detection of ruptured coronary plaques in patients with acute myocardial infarction. <i>PLoS ONE</i> , 2017 , 12, e0188292	3.7	9
95	Deep learning for detection of radiographic sacroiliitis: achieving expert-level performance. <i>Arthritis Research and Therapy</i> , 2021 , 23, 106	5.7	9
94	Medical imaging deep learning with differential privacy. <i>Scientific Reports</i> , 2021 , 11, 13524	4.9	9
93	Use of quantitative T2 mapping for the assessment of renal cell carcinomas: first results. <i>Cancer Imaging</i> , 2019 , 19, 35	5.6	8
92	Sclerotic bone lesions as a potential imaging biomarker for the diagnosis of tuberous sclerosis complex. <i>Scientific Reports</i> , 2018 , 8, 953	4.9	8
91	Diagnostic accuracy of susceptibility-weighted magnetic resonance imaging for the evaluation of pineal gland calcification. <i>PLoS ONE</i> , 2017 , 12, e0172764	3.7	8
90	Treatment effect of mTOR-inhibition on tissue composition of renal angiomyolipomas in tuberous sclerosis complex (TSC). <i>PLoS ONE</i> , 2017 , 12, e0189132	3.7	8
89	CT-like images of the sacroiliac joint generated from MRI using susceptibility-weighted imaging (SWI) in patients with axial spondyloarthritis. <i>RMD Open</i> , 2021 , 7,	5.9	8
88	Differentiation of Predominantly Osteoblastic and Osteolytic Spine Metastases by Using Susceptibility-weighted MRI. <i>Radiology</i> , 2019 , 290, 146-154	20.5	8

87	CT-like images based on T1 spoiled gradient-echo and ultra-short echo time MRI sequences for the assessment of vertebral fractures and degenerative bone changes of the spine. <i>European Radiology</i> , 2021 , 31, 4680-4689	8	8
86	Quantitative susceptibility mapping across two clinical field strengths: Contrast-to-noise ratio enhancement at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 1410-1420	5.6	7
85	Evaluation of vertebral body fractures using susceptibility-weighted magnetic resonance imaging. <i>European Radiology</i> , 2018 , 28, 2228-2235	8	7
84	Segment-by-segment assessment of left ventricular myocardial affection in Anderson-Fabry disease by non-enhanced T1-mapping. <i>Acta Radiologica</i> , 2017 , 58, 914-921	2	7
83	Imaging of cardiac fibroblast activation in a patient after acute myocardial infarction using Ga-FAPI-04. <i>Journal of Nuclear Cardiology</i> , 2021 , 1	2.1	7
82	X-ray Dark-Field Chest Imaging: Qualitative and Quantitative Results in Healthy Humans. <i>Radiology</i> , 2021 , 301, 389-395	20.5	7
81	Deep Convolutional Neural Network-Assisted Feature Extraction for Diagnostic Discrimination and Feature Visualization in Pancreatic Ductal Adenocarcinoma (PDAC) versus Autoimmune Pancreatitis (AIP). <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6
80	Multiparametric Assessment of Changes in Renal Tissue after Kidney Transplantation with Quantitative MR Relaxometry and Diffusion-Tensor Imaging at 3 T. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6
79	Complementarity of molecular and elemental mass spectrometric imaging of Gadovist in mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 629-637	4.4	6
78	Multiparametric Modelling of Survival in Pancreatic Ductal Adenocarcinoma Using Clinical, Histomorphological, Genetic and Image-Derived Parameters. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	5
77	Potential of asphericity as a novel diagnostic parameter in the evaluation of patients with Ga-PSMA-HBED-CC PET-positive prostate cancer lesions. <i>EJNMMI Research</i> , 2017 , 7, 85	3.6	5
76	Native T1 mapping of autoimmune pancreatitis as a quantitative outcome surrogate. <i>European Radiology</i> , 2019 , 29, 4436-4446	8	5
75	Carbon fiber-reinforced pedicle screws reduce artifacts in magnetic resonance imaging of patients with lumbar spondylosis. <i>Scientific Reports</i> , 2020 , 10, 16094	4.9	5
74	Correlation between Intraprostatic PSMA Uptake and MRI PI-RADS of [Ga]Ga-PSMA-11 PET/MRI in Patients with Prostate Cancer: Comparison of PI-RADS Version 2.0 and PI-RADS Version 2.1. <i>Cancers</i> , 2020 , 12,	6.6	5
73	In Comparison to PSA, Interim Ga-68-PSMA PET/CT Response Evaluation Based on Modified RECIST 1.1 After 2 Cycle Is Better Predictor of Overall Survival of Prostate Cancer Patients Treated With Lu-PSMA. <i>Frontiers in Oncology</i> , 2021 , 11, 578093	5.3	5
72	Improved body quantitative susceptibility mapping by using a variable-layer single-min-cut graph-cut for field-mapping. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1697-1712	4.4	5
71	Coronary Vessel Wall Imaging: State of the Art and Future Directions. <i>Current Cardiovascular Imaging Reports</i> , 2019 , 12, 1	0.7	4
70	Accuracy of standard clinical 3T prostate MRI for pelvic lymph node staging: Comparison to Ga-PSMA PET-CT. <i>Scientific Reports</i> , 2019 , 9, 10727	4.9	4

69	Cardiovascular MRI in small animals. <i>Expert Review of Cardiovascular Therapy</i> , 2010 , 8, 35-47	2.5	4
68	Lesion-to-background ratio threshold value of SUVmax of simultaneous [Ga]Ga-PSMA-11 PET/MRI imaging in patients with prostate cancer. <i>Insights Into Imaging</i> , 2020 , 11, 137	5.6	4
67	F FDG PET/MRI with hepatocyte-specific contrast agent for M staging of rectal cancer: a primary economic evaluation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 3268-3276	8.8	4
66	Improved differentiation between primary lung cancer and pulmonary metastasis by combining dual-energy CT-derived biomarkers with conventional CT attenuation. <i>European Radiology</i> , 2021 , 31, 1002-1010	8	4
65	Lung nodule detection in chest X-rays using synthetic ground-truth data comparing CNN-based diagnosis to human performance. <i>Scientific Reports</i> , 2021 , 11, 15857	4.9	4
64	Multitask Deep Learning for Segmentation and Classification of Primary Bone Tumors on Radiographs. <i>Radiology</i> , 2021 , 301, 398-406	20.5	4
63	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , 2021 , 3, 749-758	22.5	4
62	Assessment of the extracellular volume fraction for the grading of clear cell renal cell carcinoma: first results and histopathological findings. <i>European Radiology</i> , 2019 , 29, 5832-5843	8	3
61	Diagnosis of Left Ventricular Diastolic Dysfunction Using Cardiac Magnetic Resonance Imaging: Comparison of Volume-Time Curves Derived from Long- and Short-Axis Cine Steady-State Free Precession Datasets. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2020 , 192, 764-775	2.3	3
60	Detection of vessel wall calcifications in vertebral arteries using susceptibility weighted imaging. <i>Neuroradiology</i> , 2017 , 59, 861-872	3.2	3
59	In Vivo High-Frequency Ultrasound for the Characterization of Thrombi Associated with Aortic Aneurysms in an Experimental Mouse Model. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2882-2890	3.5	3
58	Qualitative and Quantitative Assessment of Emphysema Using Dark-Field Chest Radiography.. <i>Radiology</i> , 2022 , 212025	20.5	3
57	Noise reduction in diffusion weighted MRI of the pancreas using an L1-regularized iterative SENSE reconstruction. <i>Magnetic Resonance Imaging</i> , 2021 , 87, 1-1	3.3	3
56	Quantitative MRI for Assessment of Treatment Outcomes in a Rabbit VX2 Hepatic Tumor Model. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 668-685	5.6	3
55	Cardiac Computed Tomography for Atrial Fibrillation Patients Undergoing Ablation: Implications for the Prediction of Early Recurrence. <i>Journal of Thoracic Imaging</i> , 2020 , 35, 186-192	5.6	3
54	Native T1 Mapping Magnetic Resonance Imaging as a Quantitative Biomarker for Characterization of the Extracellular Matrix in a Rabbit Hepatic Cancer Model. <i>Biomedicines</i> , 2020 , 8,	4.8	3
53	Opportunistic QCT Bone Mineral Density Measurements Predicting Osteoporotic Fractures: A Use Case in a Prospective Clinical Cohort. <i>Frontiers in Endocrinology</i> , 2020 , 11, 586352	5.7	3
52	Value of susceptibility-weighted imaging for the assessment of angle measurements reflecting hip morphology. <i>Scientific Reports</i> , 2020 , 10, 20899	4.9	3

51	Evaluation of synergistic image registration for motion-corrected coronary NaF-PET-MR. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200202 ³		3
50	Physiological variation of the vertebral bone marrow water T2 relaxation time. <i>NMR in Biomedicine</i> , 2021 , 34, e4439	4.4	3
49	Calcium scoring using virtual non-contrast images from a dual-layer spectral detector CT: comparison to true non-contrast data and evaluation of proportionality factor in a large patient collective. <i>European Radiology</i> , 2021 , 31, 6193-6199	8	3
48	Magnetic resonance neurography of the lumbosacral plexus at 3 Tesla - CSF-suppressed imaging with submillimeter resolution by a three-dimensional turbo spin echo sequence. <i>Magnetic Resonance Imaging</i> , 2020 , 71, 132-139	3.3	2
47	Influence of acquired obesity on coronary vessel wall late gadolinium enhancement in discordant monozygote twins. <i>European Radiology</i> , 2017 , 27, 4612-4618	8	2
46	Molecular Imaging of Thrombosis. <i>Current Cardiovascular Imaging Reports</i> , 2010 , 3, 34-41	0.7	2
45	Assessment of vertebral fractures and edema of the thoracolumbar spine based on water-fat and susceptibility-weighted images derived from a single ultra-short echo time scan. <i>Magnetic Resonance in Medicine</i> , 2021 ,	4.4	2
44	Molecular MR Imaging of Prostate Cancer. <i>Biomedicines</i> , 2020 , 9,	4.8	2
43	Shortened Tracer Uptake Time in GA-68-DOTATOC-PET of Meningiomas Does Not Impair Diagnostic Accuracy and PET Volume Definition. <i>Diagnostics</i> , 2020 , 10,	3.8	2
42	Dynamic Contrast-Enhanced MRI of Prostate Lesions of Simultaneous [Ga]Ga-PSMA-11 PET/MRI: Comparison between Intraprostatic Lesions and Correlation between Perfusion Parameters. <i>Cancers</i> , 2021 , 13,	6.6	2
41	Respiratory motion correction for enhanced quantification of hepatic lesions in simultaneous PET and DCE-MR imaging. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	2
40	De Novo Radiomics Approach Using Image Augmentation and Features From T1 Mapping to Predict Gleason Scores in Prostate Cancer. <i>Investigative Radiology</i> , 2021 , 56, 661-668	10.1	2
39	Lipid droplet-size mapping in human adipose tissue using a clinical 3T system. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1256-1270	4.4	2
38	Perfusion in hand arthritis on dynamic contrast-enhanced computed tomography: a randomized prospective study using MRI as a standard of reference. <i>Skeletal Radiology</i> , 2021 , 50, 59-68	2.7	2
37	Trajectory correction based on the gradient impulse response function improves high-resolution UTE imaging of the musculoskeletal system. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2001-2015	4.4	2
36	Hyperpolarized C pyruvate magnetic resonance spectroscopy for in vivo metabolic phenotyping of rat HCC. <i>Scientific Reports</i> , 2021 , 11, 1191	4.9	2
35	Soft tissue masses: distribution of entities and rate of malignancy in small lesions. <i>BMC Cancer</i> , 2021 , 21, 93	4.8	2
34	Potential of dual-layer spectral CT for the differentiation between hemorrhage and iodinated contrast medium in the brain after endovascular treatment of ischemic stroke patients. <i>Clinical Imaging</i> , 2021 , 79, 158-164	2.7	2

33	Development and evaluation of machine learning models based on X-ray radiomics for the classification and differentiation of malignant and benign bone tumors.. <i>European Radiology</i> , 2022 , 1	8	2
32	Gradient nonlinearity correction in liver DWI using motion-compensated diffusion encoding waveforms. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021 , 1	2.8	2
31	In vivo MR-angiography for the assessment of aortic aneurysms in an experimental mouse model on a clinical MRI scanner: Comparison with high-frequency ultrasound and histology. <i>PLoS ONE</i> , 2017 , 12, e0178682	3.7	1
30	Additional MRI for initial M-staging in pancreatic cancer: a cost-effectiveness analysis. <i>European Radiology</i> , 2021 , 1	8	1
29	Qualitative and Quantitative Comparison of Respiratory Triggered Reduced Field-of-View (FOV) Versus Full FOV Diffusion Weighted Imaging (DWI) in Pancreatic Pathologies. <i>Academic Radiology</i> , 2021 , 28 Suppl 1, S234-S243	4.3	1
28	Cartilage T Relaxation Times and Subchondral Trabecular Bone Parameters Predict Morphological Outcome After Matrix-Associated Autologous Chondrocyte Implantation With Autologous Bone Grafting. <i>American Journal of Sports Medicine</i> , 2020 , 48, 3573-3585	6.8	1
27	Assessment of the hepatic tumor extracellular matrix using elastin-specific molecular magnetic resonance imaging in an experimental rabbit cancer model. <i>Scientific Reports</i> , 2020 , 10, 20785	4.9	1
26	Comparison of diagnostic value of ⁶⁸ Ga-DOTATOC PET/MRI and standalone MRI for the detection of intracranial meningiomas. <i>Scientific Reports</i> , 2021 , 11, 9064	4.9	1
25	SARS-CoV-2 serology increases diagnostic accuracy in CT-suspected, PCR-negative COVID-19 patients during pandemic. <i>Respiratory Research</i> , 2021 , 22, 119	7.3	1
24	Detection of Bone Marrow Edema in Patients with Osteoid Osteoma Using Three-Material Decomposition with Dual-Layer Spectral CT. <i>Diagnostics</i> , 2021 , 11,	3.8	1
23	High rate of complete histopathological response in hepatocellular carcinoma patients after combined transarterial chemoembolization and stereotactic body radiation therapy. <i>World Journal of Gastroenterology</i> , 2021 , 27, 3630-3642	5.6	1
22	[F]FDG PET/MRI enables early chemotherapy response prediction in pancreatic ductal adenocarcinoma. <i>EJNMMI Research</i> , 2021 , 11, 70	3.6	1
21	In vivo assessment of endothelial permeability of coronary lesions with variable degree of stenosis using an albumin-binding MR probe. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 3049-3055 ^{2.5}		1
20	Estimating vertebral bone marrow fat unsaturation based on short-TE STEAM MRS. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 615-626	4.4	1
19	Local Bone Mineral Density, Subcutaneous and Visceral Adipose Tissue Measurements in Routine Multi Detector Computed Tomography-Which Parameter Predicts Incident Vertebral Fractures Best?. <i>Diagnostics</i> , 2021 , 11,	3.8	1
18	⁶⁸ Ga-DOTATOC-PET/MRI-A Secure One-Stop Shop Imaging Tool for Robotic Radiosurgery Treatment Planning in Patients with Optic Nerve Sheath Meningioma. <i>Cancers</i> , 2021 , 13,	6.6	1
17	Preconditioned water-fat total field inversion: Application to spine quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 417-430	4.4	1
16	Efficient, high-performance semantic segmentation using multi-scale feature extraction. <i>PLoS ONE</i> , 2021 , 16, e0255397	3.7	1

15	Improving CT accuracy in the diagnosis of COVID-19 in a hospital setting. <i>Clinical Imaging</i> , 2021 , 76, 1-5	2.7	1
14	Vertebral bone marrow T2* mapping using chemical shift encoding-based water-fat separation in the quantitative analysis of lumbar osteoporosis and osteoporotic fractures. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 3715-3725	3.6	1
13	MRI-Determined Psoas Muscle Fat Infiltration Correlates with Severity of Weight Loss during Cancer Cachexia. <i>Cancers</i> , 2021 , 13,	6.6	1
12	Feature Robustness and Diagnostic Capabilities of Convolutional Neural Networks Against Radiomics Features in Computed Tomography Imaging. <i>Investigative Radiology</i> , 2021 ,	10.1	1
11	Evaluation of MR-derived simulated CT-like images and simulated radiographs compared to conventional radiography in patients with shoulder pain: a proof-of-concept study.. <i>BMC Musculoskeletal Disorders</i> , 2022 , 23, 122	2.8	0
10	Microscopic multifrequency magnetic resonance elastography of ex vivo abdominal aortic aneurysms for extracellular matrix imaging in a mouse model. <i>Acta Biomaterialia</i> , 2021 , 140, 389-389	10.8	0
9	Flexible numerical simulation framework for dynamic PET-MR data. <i>Physics in Medicine and Biology</i> , 2020 , 65, 145003	3.8	0
8	Longitudinal changes on liver proton density fat fraction differ between liver segments. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 1701-1709	3.6	0
7	Clinical Outcome After Anterior Lumbar Interbody Fusion With a New Osteoinductive Bone Substitute Material: A Randomized Clinical Pilot Study. <i>Clinical Spine Surgery</i> , 2019 , 32, E319-E325	1.8	0
6	Elastin-specific MRI of extracellular matrix-remodelling following hepatic radiofrequency-ablation in a VX2 liver tumor model. <i>Scientific Reports</i> , 2021 , 11, 6814	4.9	0
5	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency.. <i>European Radiology Experimental</i> , 2022 , 6, 9	4.5	0
4	Fibrin-targeting molecular MRI in inflammatory CNS disorders.. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022 , 1	8.8	0
3	Hierarchical multi-resolution graph-cuts for water-fat-bilirubin separation in breast MRI. <i>IEEE Transactions on Medical Imaging</i> , 2022 , 1-1	11.7	0
2	Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model. <i>Contrast Media and Molecular Imaging</i> , 2021 , 2021, 9999847	3.2	
1	Intraindividual difference between supraclavicular and subcutaneous proton density fat fraction is associated with cold-induced thermogenesis.. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022 , 12, 2877-2890	3.6	