

Marcus R Makowski

List of Publications by Year in descending order

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152
papers

3,558
citations

185998

28
h-index

189595

50
g-index

157
all docs

157
docs citations

157
times ranked

4827
citing authors

#	ARTICLE	IF	CITATIONS
1	Secure, privacy-preserving and federated machine learning in medical imaging. Nature Machine Intelligence, 2020, 2, 305-311.	8.3	473
2	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent. Nature Medicine, 2011, 17, 383-388.	15.2	161
3	End-to-end privacy preserving deep learning on multi-institutional medical imaging. Nature Machine Intelligence, 2021, 3, 473-484.	8.3	157
4	The role of visceral adiposity in the severity of COVID-19: Highlights from a unicenter cross-sectional pilot study in Germany. Metabolism: Clinical and Experimental, 2020, 110, 154317.	1.5	146
5	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. Npj Digital Medicine, 2021, 4, 60.	5.7	134
6	Immunohistochemical Validation of PSMA Expression Measured by ⁶⁸ Ga-PSMA PET/CT in Primary Prostate Cancer. Journal of Nuclear Medicine, 2018, 59, 238-243.	2.8	120
7	Biodistribution of [68Ga]PSMA-HBED-CC in Patients with Prostate Cancer: Characterization of Uptake in Normal Organs and Tumour Lesions. Molecular Imaging and Biology, 2016, 18, 428-436.	1.3	84
8	X-ray dark-field chest imaging for detection and quantification of emphysema in patients with chronic obstructive pulmonary disease: a diagnostic accuracy study. The Lancet Digital Health, 2021, 3, e733-e744.	5.9	70
9	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. Journal of Clinical Medicine, 2020, 9, 1514.	1.0	60
10	Comparison of hybrid 68Ga-PSMA-PET/CT and 99mTc-DPD-SPECT/CT for the detection of bone metastases in prostate cancer patients: Additional value of morphologic information from low dose CT. European Radiology, 2018, 28, 610-619.	2.3	59
11	Renal cell carcinoma with venous extension: prediction of inferior vena cava wall invasion by MRI. Cancer Imaging, 2018, 18, 17.	1.2	56
12	Medical imaging deep learning with differential privacy. Scientific Reports, 2021, 11, 13524.	1.6	52
13	Multitask Deep Learning for Segmentation and Classification of Primary Bone Tumors on Radiographs. Radiology, 2021, 301, 398-406.	3.6	47
14	Noninvasive Assessment of Atherosclerotic Plaque Progression in ApoE ^{0/0} Mice Using Susceptibility Gradient Mapping. Circulation: Cardiovascular Imaging, 2011, 4, 295-303.	1.3	45
15	In Vivo Assessment of Aortic Aneurysm Wall Integrity Using Elastin-Specific Molecular Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2014, 7, 679-689.	1.3	43
16	MR Imaging of the Arterial Vessel Wall: Molecular Imaging from Bench to Bedside. Radiology, 2013, 269, 34-51.	3.6	42
17	Highly accurate classification of chest radiographic reports using a deep learning natural language model pre-trained on 3.8 million text reports. Bioinformatics, 2021, 36, 5255-5261.	1.8	41
18	X-ray Dark-Field Chest Imaging: Qualitative and Quantitative Results in Healthy Humans. Radiology, 2021, 301, 389-395.	3.6	41

#	ARTICLE	IF	CITATIONS
19	In vivo assessment of intraplaque and endothelial fibrin in ApoE ^{-/-} mice by molecular MRI. <i>Atherosclerosis</i> , 2012, 222, 43-49.	0.4	40
20	Imaging of cardiac fibroblast activation in a patient after acute myocardial infarction using ⁶⁸ Ga-FAPI-04. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2254-2261.	1.4	39
21	Congenital Heart Disease: Cardiovascular MR Imaging by Using an Intravascular Blood Pool Contrast Agent. <i>Radiology</i> , 2011, 260, 680-688.	3.6	38
22	Deep learning for detection of radiographic sacroiliitis: achieving expert-level performance. <i>Arthritis Research and Therapy</i> , 2021, 23, 106.	1.6	37
23	Matched-Pair Comparison of ⁶⁸ Ga-PSMA-11 and ¹⁸ 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.	2.8	36
24	Three-Dimensional Imaging of the Aortic Vessel Wall Using an Elastin-Specific Magnetic Resonance Contrast Agent. <i>Investigative Radiology</i> , 2012, 47, 438-444.	3.5	35
25	Image-Based Molecular Phenotyping of Pancreatic Ductal Adenocarcinoma. <i>Journal of Clinical Medicine</i> , 2020, 9, 724.	1.0	35
26	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.	2.3	35
27	Characterization of Coronary Atherosclerosis by Magnetic Resonance Imaging. <i>Circulation</i> , 2013, 128, 1244-1255.	1.6	33
28	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.	1.0	33
29	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.	1.3	32
30	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, 4013.	1.0	32
31	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, e001656.	1.8	31
32	Molecular MR Imaging of Prostate Cancer. <i>Biomedicines</i> , 2021, 9, 1.	1.4	29
33	Molecular imaging of the extracellular matrix in the context of atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , 2017, 113, 49-60.	6.6	28
34	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.	2.3	28
35	⁶⁸ Ga-PSMA-PET/CT for the evaluation of liver metastases in patients with prostate cancer. <i>Cancer Imaging</i> , 2019, 19, 37.	1.2	28
36	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , 2021, 3, 749-758.	8.3	26

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37	Use of quantitative T2 mapping for the assessment of renal cell carcinomas: first results. <i>Cancer Imaging</i> , 2019, 19, 35.	1.2	25
38	Molecular Imaging of Abdominal Aortic Aneurysms. <i>Trends in Molecular Medicine</i> , 2017, 23, 150-164.	3.5	24
39	Strain-encoded cardiac magnetic resonance imaging: a new approach for fast estimation of left ventricular function. <i>BMC Cardiovascular Disorders</i> , 2019, 19, 52.	0.7	24
40	[68Ga]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.	1.3	23
41	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.	1.6	23
42	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.	2.3	23
43	Carbon fiber-reinforced pedicle screws reduce artifacts in magnetic resonance imaging of patients with lumbar spondylodesis. <i>Scientific Reports</i> , 2020, 10, 16094.	1.6	23
44	68 Ga-PSMA-PET/CT for the evaluation of pulmonary metastases and opacities in patients with prostate cancer. <i>Cancer Imaging</i> , 2018, 18, 20.	1.2	22
45	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.	1.0	22
46	Non-alcoholic fatty liver disease in underweight patients with inflammatory bowel disease: A case-control study. <i>PLoS ONE</i> , 2018, 13, e0206450.	1.1	21
47	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.	0.9	21
48	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.	2.3	21
49	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.	2.3	20
50	Qualitative and Quantitative Assessment of Emphysema Using Dark-Field Chest Radiography. <i>Radiology</i> , 2022, 303, 119-127.	3.6	20
51	Quantitative biparametric analysis of hybrid 18F-FET PET/MR-neuroimaging for differentiation between treatment response and recurrent glioma. <i>Scientific Reports</i> , 2019, 9, 14603.	1.6	19
52	Differentiation of Predominantly Osteoblastic and Osteolytic Spine Metastases by Using Susceptibility-weighted MRI. <i>Radiology</i> , 2019, 290, 146-154.	3.6	19
53	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, 1551.	1.0	19
54	In Comparison to PSA, Interim Ga-68-PSMA PET/CT Response Evaluation Based on Modified RECIST 1.1 After 2nd Cycle Is Better Predictor of Overall Survival of Prostate Cancer Patients Treated With 177Lu-PSMA. <i>Frontiers in Oncology</i> , 2021, 11, 578093.	1.3	18

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55	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.	3.5	18
56	Assessment of intracranial meningioma-associated calcifications using susceptibility-weighted MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1177-1186.	1.9	16
57	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.	1.0	16
58	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.	1.5	16
59	Ex vivo magnetic particle imaging of vascular inflammation in abdominal aortic aneurysm in a murine model. <i>Scientific Reports</i> , 2020, 10, 12410.	1.6	16
60	Improved body quantitative susceptibility mapping by using a variable-layer single-minicut graph for field mapping. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1697-1712.	1.9	16
61	Cost-Effectiveness of Artificial Intelligence Support in Computed Tomography-Based Lung Cancer Screening. <i>Cancers</i> , 2022, 14, 1729.	1.7	16
62	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> , 2017, 61, 373-388.	1.2	15
63	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.	2.3	15
64	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.	1.6	15
65	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.	1.1	15
66	3D nonrigid motion correction for quantitative assessment of hepatic lesions in DCE-MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1753-1766.	1.9	14
67	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.	1.6	14
68	Molecular magnetic resonance imaging of atherosclerotic vessel wall disease. <i>European Radiology</i> , 2016, 26, 910-920.	2.3	13
69	Sclerotic bone lesions as a potential imaging biomarker for the diagnosis of tuberous sclerosis complex. <i>Scientific Reports</i> , 2018, 8, 953.	1.6	13
70	Evaluation of vertebral body fractures using susceptibility-weighted magnetic resonance imaging. <i>European Radiology</i> , 2018, 28, 2228-2235.	2.3	13
71	Multiparametric Modelling of Survival in Pancreatic Ductal Adenocarcinoma Using Clinical, Histomorphological, Genetic and Image-Derived Parameters. <i>Journal of Clinical Medicine</i> , 2020, 9, 1250.	1.0	13
72	¹⁸ 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.	3.3	13

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73	Simultaneous [18F]fluoride and gadobutrol enhanced coronary positron emission tomography/magnetic resonance imaging for <i>in vivo</i> plaque characterization. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1391-1398.	0.5	13
74	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.	1.2	12
75	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.	1.1	12
76	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.	1.9	12
77	Treatment effect of mTOR-inhibition on tissue composition of renal angiomyolipomas in tuberous sclerosis complex (TSC). <i>PLoS ONE</i> , 2017, 12, e0189132.	1.1	12
78	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.	1.9	11
79	Hyperpolarized 13C pyruvate magnetic resonance spectroscopy for <i>in vivo</i> metabolic phenotyping of rat HCC. <i>Scientific Reports</i> , 2021, 11, 1191.	1.6	11
80	[18F]FDG PET/MRI enables early chemotherapy response prediction in pancreatic ductal adenocarcinoma. <i>EJNMMI Research</i> , 2021, 11, 70.	1.1	11
81	Preconditioned water-fat total field inversion: Application to spine quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 417-430.	1.9	11
82	Feature Robustness and Diagnostic Capabilities of Convolutional Neural Networks Against Radiomics Features in Computed Tomography Imaging. <i>Investigative Radiology</i> , 2022, 57, 171-177.	3.5	11
83	Correlation between Intraprostatic PSMA Uptake and MRI PI-RADS of [68Ga]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, 3523.	1.7	10
84	Comparison of diagnostic value of 68Ga-DOTATOC PET/MRI and standalone MRI for the detection of intracranial meningiomas. <i>Scientific Reports</i> , 2021, 11, 9064.	1.6	10
85	Diagnostic accuracy of susceptibility-weighted magnetic resonance imaging for the evaluation of pineal gland calcification. <i>PLoS ONE</i> , 2017, 12, e0172764.	1.1	10
86	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, , .	1.9	10
87	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.	0.5	9
88	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.	1.9	9
89	Physiological variation of the vertebral bone marrow water T2 relaxation time. <i>NMR in Biomedicine</i> , 2021, 34, e4439.	1.6	9
90	Efficient, high-performance semantic segmentation using multi-scale feature extraction. <i>PLoS ONE</i> , 2021, 16, e0255397.	1.1	9

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91	Lesion-to-background ratio threshold value of SUVmax of simultaneous [68Ga]Ga-PSMA-11 PET/MRI imaging in patients with prostate cancer. <i>Insights Into Imaging</i> , 2020, 11, 137.	1.6	9
92	Additional MRI for initial M-staging in pancreatic cancer: a cost-effectiveness analysis. <i>European Radiology</i> , 2022, 32, 2448-2456.	2.3	9
93	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, 32, 6247-6257.	2.3	9
94	Soft tissue masses: distribution of entities and rate of malignancy in small lesions. <i>BMC Cancer</i> , 2021, 21, 93.	1.1	8
95	Dynamic Contrast-Enhanced MRI of Prostate Lesions of Simultaneous [68Ga]Ga-PSMA-11 PET/MRI: Comparison between Intraprostatic Lesions and Correlation between Perfusion Parameters. <i>Cancers</i> , 2021, 13, 1404.	1.7	8
96	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, 095012.	1.6	8
97	Native T1 mapping of autoimmune pancreatitis as a quantitative outcome surrogate. <i>European Radiology</i> , 2019, 29, 4436-4446.	2.3	8
98	Cardiac Computed Tomography for Atrial Fibrillation Patients Undergoing Ablation. <i>Journal of Thoracic Imaging</i> , 2020, 35, 186-192.	0.8	7
99	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, 412.	1.4	7
100	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.	0.7	7
101	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.	1.2	7
102	MRI-Determined Psoas Muscle Fat Infiltration Correlates with Severity of Weight Loss during Cancer Cachexia. <i>Cancers</i> , 2021, 13, 4433.	1.7	7
103	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, S234-S243.	1.3	7
104	Gradient nonlinearity correction in liver DWI using motion-compensated diffusion encoding waveforms. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, , 1.	1.1	7
105	Accuracy of standard clinical 3T prostate MRI for pelvic lymph node staging: Comparison to 68Ga-PSMA PET-CT. <i>Scientific Reports</i> , 2019, 9, 10727.	1.6	6
106	Complementarity of molecular and elemental mass spectrometric imaging of Gadovistâ„¢ in mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 629-637.	1.9	6
107	Estimating vertebral bone marrow fat unsaturation based on shortâ€TE STEAM MRS. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 615-626.	1.9	6
108	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.	1.4	6

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109	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.	0.8	6
110	Noise reduction in diffusion weighted MRI of the pancreas using an L1-regularized iterative SENSE reconstruction. <i>Magnetic Resonance Imaging</i> , 2022, 87, 1-6.	1.0	6
111	High-Resolution, High b-Value Computed Diffusion-Weighted Imaging Improves Detection of Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2022, 14, 470.	1.7	6
112	Cardiovascular MRI in small animals. <i>Expert Review of Cardiovascular Therapy</i> , 2010, 8, 35-47.	0.6	5
113	Detection of vessel wall calcifications in vertebral arteries using susceptibility weighted imaging. <i>Neuroradiology</i> , 2017, 59, 861-872.	1.1	5
114	Potential of asphericity as a novel diagnostic parameter in the evaluation of patients with 68Ga-PSMA-HBED-CC PET-positive prostate cancer lesions. <i>EJNMMI Research</i> , 2017, 7, 85.	1.1	5
115	Cartilage T ₂ 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.	1.9	5
116	Value of susceptibility-weighted imaging for the assessment of angle measurements reflecting hip morphology. <i>Scientific Reports</i> , 2020, 10, 20899.	1.6	5
117	Lipid droplet size mapping in human adipose tissue using a clinical 3T system. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1256-1270.	1.9	5
118	Longitudinal changes on liver proton density fat fraction differ between liver segments. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 1701-1709.	1.1	5
119	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.	1.6	5
120	68Ga-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, 3305.	1.7	5
121	CT-like images in MRI improve specificity of erosion detection in patients with hand arthritis: a diagnostic accuracy study with CT as standard of reference. <i>RMD Open</i> , 2022, 8, e002089.	1.8	5
122	Dark-field chest x-ray imaging: first experience in patients with alpha1-antitrypsin deficiency. <i>European Radiology Experimental</i> , 2022, 6, 9.	1.7	5
123	Fibrin-targeting molecular MRI in inflammatory CNS disorders. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3692-3704.	3.3	5
124	Influence of acquired obesity on coronary vessel wall late gadolinium enhancement in discordant monozygote twins. <i>European Radiology</i> , 2017, 27, 4612-4618.	2.3	4
125	Coronary Vessel Wall Imaging: State of the Art and Future Directions. <i>Current Cardiovascular Imaging Reports</i> , 2019, 12, 1.	0.4	4
126	Clinical Outcome After Anterior Lumbar Interbody Fusion With a New Osteoinductive Bone Substitute Material. <i>Clinical Spine Surgery</i> , 2019, 32, E319-E325.	0.7	4

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127	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.	1.6	4
128	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, 240.	1.3	4
129	SARS-CoV-2 serology increases diagnostic accuracy in CT-suspected, PCR-negative COVID-19 patients during pandemic. <i>Respiratory Research</i> , 2021, 22, 119.	1.4	4
130	Detection of Bone Marrow Edema in Patients with Osteoid Osteoma Using Three-Material Decomposition with Dual-Layer Spectral CT. <i>Diagnostics</i> , 2021, 11, 953.	1.3	4
131	Improving CT accuracy in the diagnosis of COVID-19 in a hospital setting. <i>Clinical Imaging</i> , 2021, 76, 1-5.	0.8	4
132	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.	0.8	4
133	Comparison of CT, MRI, and F-18 FDG PET/CT for initial N-staging of oral squamous cell carcinoma: a cost-effectiveness analysis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3870-3877.	3.3	4
134	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.	0.7	3
135	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, 1084.	1.3	3
136	Effect of Doxycycline on Survival in Abdominal Aortic Aneurysms in a Mouse Model. <i>Contrast Media and Molecular Imaging</i> , 2021, 2021, 1-9.	0.4	3
137	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.	0.7	3
138	Flexible numerical simulation framework for dynamic PET-MR data. <i>Physics in Medicine and Biology</i> , 2020, 65, 145003.	1.6	3
139	Iodine images in dual energy CT: A monocentric study benchmarking quantitative iodine concentration values of the healthy liver. <i>PLoS ONE</i> , 2022, 17, e0270805.	1.1	3
140	Molecular Imaging of Thrombosis. <i>Current Cardiovascular Imaging Reports</i> , 2010, 3, 34-41.	0.4	2
141	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.	1.0	2
142	Assessment of Albumin ECM Accumulation and Inflammation as Novel In Vivo Diagnostic Targets for Multi-Target MR Imaging. <i>Biology</i> , 2021, 10, 964.	1.3	2
143	Visualization and Quantification of the Extracellular Matrix in Prostate Cancer Using an Elastin Specific Molecular Probe. <i>Biology</i> , 2021, 10, 1217.	1.3	2
144	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.	4.1	2

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145	Hierarchical Multi-Resolution Graph-Cuts for Water-Fat-Silicone Separation in Breast MRI. IEEE Transactions on Medical Imaging, 2022, 41, 3253-3265.	5.4	2
146	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. PLoS ONE, 2017, 12, e0178682.	1.1	1
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