Bettina Baessler

List of Publications by Year
in descending order

75 papers	3,216 citations	249298 26 h-index	190340 53 g-index
81 all docs	81 docs citations	81 times ranked	4104 citing authors

#	Article	IF	Citations
1	Radiomics for detecting prostate cancer bone metastases invisible in CT: a proof-of-concept study. European Radiology, 2022, 32, 1823-1832.	2.3	17
2	Challenges in ensuring the generalizability of image quantitation methods for MRI. Medical Physics, 2022, 49, 2820-2835.	1.6	16
3	Robustness of dual-energy CT-derived radiomic features across three different scanner types. European Radiology, 2022, 32, 1959-1970.	2.3	12
4	Development, validation, qualification, and dissemination of quantitative MR methods: Overview and recommendations by the ISMRM quantitative MR study group. Magnetic Resonance in Medicine, 2022, 87, 1184-1206.	1.9	21
5	Comparison of detection of trauma-related injuries using combined â€œall-in-oneâ€•fused images and conventionally reconstructed images in acute trauma CT. European Radiology, 2022, , 1.	2.3	1
6	Value of Radiomics of Perinephric Fat for Prediction of Intraoperative Complexity in Renal Tumor Surgery. Urologia Internationalis, 2022, 106, 604-615.	0.6	2
7	CoRad-19 â€“ Modular Digital Teaching during the SARS-CoV-2 Pandemic. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, , .	0.7	4
8	Influence of CT Image Matrix Size and Kernel Type on the Assessment of HRCT in Patients with SSC-ILD. Diagnostics, 2022, 12, 1662.	1.3	1
9	Dual-Energy CT-Based Iodine Quantification in Liver Tumors â€“ Impact of Scan-, Patient-, and Position-Related Factors. Academic Radiology, 2021, 28, 783-789.	1.3	5
10	A decade of radiomics research: are images really data or just patterns in the noise?. European Radiology, 2021, 31, 1-4.	2.3	99
11	Practical applications of deep learning: classifying the most common categories of plain radiographs in a PACS using a neural network. European Radiology, 2021, 31, 1812-1818.	2.3	6
12	Machine learning in cardiovascular radiology: ESCR position statement on design requirements, quality assessment, current applications, opportunities, and challenges. European Radiology, 2021, 31, 3909-3922.	2.3	19
13	Radiomics in Renal Cell Carcinomaâ€”A Systematic Review and Meta-Analysis. Cancers, 2021, 13, 1348.	1.7	38
14	Automated detection and segmentation of thoracic lymph nodes from CT using 3D foveal fully convolutional neural networks. BMC Medical Imaging, 2021, 21, 69.	1.4	13
15	Velocity quantification in 44 healthy volunteers using accelerated multi-VENC 4D flow CMR. European Journal of Radiology, 2021, 137, 109570.	1.2	15
16	Can magnetic resonance imaging radiomics of the pancreas predict postoperative pancreatic fistula?. European Journal of Radiology, 2021, 140, 109733.	1.2	21
17	White Paper: Radiology Curriculum for Undergraduate Medical Education in Germany and Integration into the NKLM 2.0. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2021, 193, 1294-1303.	0.7	2
18	Virtual Monoenergetic Images of Dual-Energy CTâ€”Impact on Repeatability, Reproducibility, and Classification in Radiomics. Cancers, 2021, 13, 4710.	1.7	14

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19	How COVID-19 kick-started online learning in medical educationâ€"The DigiMed study. PLoS ONE, 2021, 16, e0257394.	1.1	74
20	k-t accelerated multi-VENC 4D flow MRI improves vortex assessment in pulmonary hypertension. European Journal of Radiology, 2021, 145, 110035.	1.2	6
21	Computed tomography radiomics for the prediction of thymic epithelial tumor histology, TNM stage and myasthenia gravis. PLoS ONE, 2021, 16, e0261401.	1.1	11
22	Structured Reporting in Cross-Sectional Imaging of the Heart: Reporting Templates for CMR Imaging of Cardiomyopathies (Myocarditis, Dilated Cardiomyopathy, Hypertrophic Cardiomyopathy,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2020, 192, 27-37.	0.7	19
23	Peripheral Vascular Anomalies â€“ Essentials in Periinterventional Imaging. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2020, 192, 150-162.	0.7	9
24	Radiomics allows for detection of benign and malignant histopathology in patients with metastatic testicular germ cell tumors prior to post-chemotherapy retroperitoneal lymph node dissection. European Radiology, 2020, 30, 2334-2345.	2.3	56
25	Magnetic Resonance Kidney Parenchyma-T2 as a Novel Imaging Biomarker for Autosomal Dominant Polycystic Kidney Disease. Investigative Radiology, 2020, 55, 217-225.	3.5	12
26	Radiomics in medical imagingâ€"â€œhow-toâ€•guide and critical reflection. Insights Into Imaging, 2020, 11, 91.	1.6	599
27	Noncontrast Quantitative Imaging Biomarkers Reflecting Myocardial TissueÂHeterogeneity. JACC: Cardiovascular Imaging, 2020, 13, 1931-1933.	2.3	1
28	Artificial Intelligence and Texture Analysis in Cardiac Imaging. Current Cardiology Reports, 2020, 22, 131.	1.3	20
29	1024-pixel image matrix for chest CT â€“ Impact on image quality of bronchial structures in phantoms and patients. PLoS ONE, 2020, 15, e0234644.	1.1	7
30	Structured Reporting of Solid and Cystic Pancreatic Lesions in CT and MRI: Consensus-Based Structured Report Templates of the German Society of Radiology (DRG). RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2020, 192, 641-656.	0.7	15
31	Endovascular simulation training: a tool to increase enthusiasm for interventional radiology among medical students. European Radiology, 2020, 30, 4656-4663.	2.3	11
32	Radiomics for liver tumours. Strahlentherapie Und Onkologie, 2020, 196, 888-899.	1.0	20
33	Image-Based Cardiac Diagnosis With Machine Learning: A Review. Frontiers in Cardiovascular Medicine, 2020, 7, 1.	1.1	143
34	Knowledge-based iterative reconstructions for imaging of coronary artery stents: first in-vitro experience and comparison of different radiation dose levels and kernel settings. Acta Radiologica, 2019, 60, 160-167.	0.5	2
35	Medical students' attitude towards artificial intelligence: a multicentre survey. European Radiology, 2019, 29, 1640-1646.	2.3	312
36	Cardiac MRI and Texture Analysis of Myocardial T1 and T2 Maps in Myocarditis with Acute versus Chronic Symptoms of Heart Failure. Radiology, 2019, 292, 608-617.	3.6	72

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37	Systematic prostate biopsy still matters: A comprehensive analysis of MRI/TRUS-fusion targeted prostate biopsies across different indications. Urologic Oncology: Seminars and Original Investigations, 2019, 37, 678-687.	0.8	7
38	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	1.6	157
39	Accuracy of Radiomics-Based Feature Analysis on Multiparametric Magnetic Resonance Images for Noninvasive Meningioma Grading. World Neurosurgery, 2019, 132, e366-e390.	0.7	45
40	Precision, reproducibility and applicability of an undersampled multi-venc 4D flow MRI sequence for the assessment of cardiac hemodynamics. Magnetic Resonance Imaging, 2019, 61, 73-82.	1.0	15
41	Structured report data can be used to develop deep learning algorithms: a proof of concept in ankle radiographs. Insights Into Imaging, 2019, 10, 93.	1.6	31
42	Robustness and Reproducibility of Radiomics in Magnetic Resonance Imaging. Investigative Radiology, 2019, 54, 221-228.	3.5	166
43	Predicting vital retroperitoneal residual tumors of metastatic testicular tumor patients after chemotherapy using radiomics.. Journal of Clinical Oncology, 2019, 37, 527-527.	0.8	1
44	Texture analysis and machine learning of non-contrast T1-weighted MR images in patients with hypertrophic cardiomyopathyâ€"Preliminary results. European Journal of Radiology, 2018, 102, 61-67.	1.2	97
45	In vitro evaluation of flow patterns and turbulent kinetic energy in trans-catheter aortic valve prostheses. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 165-172.	1.1	13
46	Subacute and Chronic Left Ventricular Myocardial Scar: Accuracy of Texture Analysis on Nonenhanced Cine MR Images. Radiology, 2018, 286, 103-112.	3.6	151
47	Big data, artificial intelligence, and structured reporting. European Radiology Experimental, 2018, 2, 42.	1.7	51
48	Incremental value of cardiovascular magnetic resonance feature tracking derived atrial and ventricular strain parameters in a comprehensive approach for the diagnosis of acute myocarditis. European Journal of Radiology, 2018, 104, 120-128.	1.2	38
49	Software-automated multidetector computed tomography-based prosthesis-sizing in transcatheter aortic valve replacement: Inter-vendor comparison and relation to patient outcome. International Journal of Cardiology, 2018, 272, 267-272.	0.8	9
50	Cardiac MRI Texture Analysis of T1 and T2 Maps in Patients with Infarctlike Acute Myocarditis. Radiology, 2018, 289, 357-365.	3.6	101
51	Myocardial T1 and T2 mapping in severe aortic stenosis: Potential novel insights into the pathophysiology of myocardial remodelling. European Journal of Radiology, 2018, 107, 76-83.	1.2	15
52	Whole-body computed tomography in trauma patients: optimization of the patient scanning position significantly shortens examination time while maintaining diagnostic image quality. Therapeutics and Clinical Risk Management, 2018, Volume 14, 849-859.	0.9	15
53	The role of cardiovascular magnetic resonance imaging in rheumatic heart disease. Clinical and Experimental Rheumatology, 2018, 36 Suppl 114, 171-176.	0.4	1
54	Monoenergetic reconstructions for imaging of coronary artery stents using spectral detector CT: In-vitro experience and comparison to conventional images. Journal of Cardiovascular Computed Tomography, 2017, 11, 33-39.	0.7	68

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55	Intra- and inter-observer reproducibility of global and regional magnetic resonance feature tracking derived strain parameters of the left and right ventricle. European Journal of Radiology, 2017, 89, 97-105.	1.2	57
56	Effect of resistance training with vibration and compression on the formation of muscle and bone. Muscle and Nerve, 2017, 56, 1137-1142.	1.0	6
57	Left and right atrial feature tracking in acute myocarditis: A feasibility study. European Journal of Radiology, 2017, 89, 72-80.	1.2	38
58	Magnetic resonance T2 mapping and diffusion-weighted imaging for early detection of cystogenesis and response to therapy in a mouse model of polycystic kidney disease. Kidney International, 2017, 92, 1544-1554.	2.6	24
59	Re-evaluation of a novel approach for quantitative myocardial oedema detection by analysing tissue inhomogeneity in acute myocarditis using T2-mapping. European Radiology, 2017, 27, 5169-5178.	2.3	14
60	Imaging Procedures for Colorectal Cancer. Visceral Medicine, 2016, 32, 166-171.	0.5	10
61	Modern Imaging of Myocarditis: Possibilities and Challenges. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2016, 188, 915-925.	0.7	5
62	Non-invasive imaging of bioresorbable coronary scaffolds using CT and MRI: First in vitro experience. International Journal of Cardiology, 2016, 206, 101-106.	0.8	12
63	Cardiovascular magnetic resonance feature tracking derived strain parameters in patients with acute myocarditis and preserved ejection fraction: a validation study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W21.	1.6	0
64	A novel analytical approach to quantitative myocardial edema imaging in acute myocarditis using T2-mapping. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W9.	1.6	0
65	Reproducibility of three different cardiac T₂â€mapping sequences at 1.5T. Journal of Magnetic Resonance Imaging, 2016, 44, 1168-1178.	1.9	28
66	Diagnostic implications of magnetic resonance feature tracking derived myocardial strain parameters in acute myocarditis. European Journal of Radiology, 2016, 85, 218-227.	1.2	52
67	A novel multiparametric imaging approach to acute myocarditis using T2-mapping and CMR feature tracking. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 71.	1.6	31
68	Mapping tissue inhomogeneity in acute myocarditis: a novel analytical approach to quantitative myocardial edema imaging by T2-mapping. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 115.	1.6	51
69	In vitro evaluation of flow patterns and turbulent kinetic energy in trans-catheter aortic valve prostheses. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q33.	1.6	0
70	Reproducibility of three different cardiac T2-mapping sequences at 1.5T and impact of cofactors on T2-relaxation times. Journal of Cardiovascular Magnetic Resonance, 2015, 17, W12.	1.6	1
71	Cardiac T2-mapping using a fast gradient echo spin echo sequence - first in vitro and in vivo experience. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 67.	1.6	45
72	A systematic evaluation of three different cardiac T2-mapping sequences at 1.5 and 3T in healthy volunteers. European Journal of Radiology, 2015, 84, 2161-2170.	1.2	80

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73	Biventricular myocardial strain analysis in patients with arrhythmogenic right ventricular cardiomyopathy (ARVC) using cardiovascular magnetic resonance feature tracking. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 75.	1.6	71
74	Case of Myocardial Relapse of a T-Cell Lymphoma After Hematopoietic Stem Cell Transplantation Demonstrated by Cardiovascular Magnetic Resonance and Endomyocardial Biopsy. Circulation, 2014, 130, e44-7.	1.6	1
75	AutoRadiomics: A Framework for Reproducible Radiomics Research. Frontiers in Radiology, 0, 2, .	1.2	11