Joachim Ernst Wildberger

List of Publications by Year
in descending order

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95 papers	5,946 citations	218677 26 h-index	79698 73 g-index
98 all docs	98 docs citations	98 times ranked	9326 citing authors

#	Article	IF	Citations
1	Radiomics: the bridge between medical imaging and personalized medicine. Nature Reviews Clinical Oncology, 2017, 14, 749-762.	27.6	3,216
2	Diagnostic Performance of Noninvasive Myocardial Perfusion Imaging Using Single-Photon Emission Computed Tomography, Cardiac Magnetic Resonance, and Positron Emission Tomography Imaging for the Detection of Obstructive Coronary Artery Disease. Journal of the American College of Cardiology, 2012, 59, 1719-1728.	2.8	402
3	Prophylactic hydration to protect renal function from intravascular iodinated contrast material in patients at high risk of contrast-induced nephropathy (AMACING): a prospective, randomised, phase 3, controlled, open-label, non-inferiority trial. Lancet, The, 2017, 389, 1312-1322.	13.7	364
4	Cerebral blood flow, blood supply, and cognition in Type 2 Diabetes Mellitus. Scientific Reports, 2016, 6, 10.	3.3	178
5	The Quality of Tumor Size Assessment by Contrast-Enhanced Spectral Mammography and the Benefit of Additional Breast MRI. Journal of Cancer, 2015, 6, 144-150.	2.5	99
6	International variation in radiation dose for computed tomography examinations: prospective cohort study. BMJ: British Medical Journal, 2019, 364, k4931.	2.3	98
7	A Deep Look Into the Future of Quantitative Imaging in Oncology: A Statement of Working Principles and Proposal for Change. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1074-1082.	0.8	86
8	Dual-Energy CT: What the Neuroradiologist Should Know. Current Radiology Reports, 2015, 3, 16.	1.4	76
9	Multiparametric imaging of patient and tumour heterogeneity in non-small-cell lung cancer: quantification of tumour hypoxia, metabolism and perfusion. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 240-248.	6.4	64
10	Aortic elongation part I: the normal aortic ageing process. Heart, 2018, 104, 1772-1777.	2.9	63
11	Initial Imaging-Guided Strategy VersusÂRoutine Care in Patients WithÂNonâ€“ST-Segment Elevation Myocardial Infarction. Journal of the American College of Cardiology, 2019, 74, 2466-2477.	2.8	58
12	Functional Brain Networks Are Altered in Type 2 Diabetes and Prediabetes: Signs for Compensation of Cognitive Decrements? The Maastricht Study. Diabetes, 2016, 65, 2404-2413.	0.6	57
13	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. PLoS ONE, 2020, 15, e0235844.	2.5	56
14	Carnitine supplementation improves metabolic flexibility and skeletal muscle acetylcarnitine formation in volunteers with impaired glucose tolerance: A randomised controlled trial. EBioMedicine, 2019, 49, 318-330.	6.1	48
15	Proton magnetic resonance spectroscopy reveals increased hepatic lipid content after a single high-fat meal with no additional modulation by added protein. American Journal of Clinical Nutrition, 2015, 101, 65-71.	4.7	47
16	Low contrast media volume in pre-TAVI CT examinations. European Radiology, 2016, 26, 2426-2435.	4.5	44
17	Pulsatility of Lenticulostriate Arteries Assessed by 7 Tesla Flow MRIâ€”Measurement, Reproducibility, and Applicability to Aging Effect. Frontiers in Physiology, 2017, 8, 961.	2.8	39
18	Optimizing contrast media application in coronary CT angiography at lower tube voltage: Evaluation in a circulation phantom and sixty patients. European Journal of Radiology, 2016, 85, 1068-1074.	2.6	38

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19	Real-Time Patient and Staff Radiation Dose Monitoring in IR Practice. CardioVascular and Interventional Radiology, 2017, 40, 421-429.	2.0	34
20	Automated quantification of epicardial adipose tissue (EAT) in coronary CT angiography; comparison with manual assessment and correlation with coronary artery disease. Journal of Cardiovascular Computed Tomography, 2014, 8, 215-221.	1.3	32
21	On the Interplay of Microvasculature, Parenchyma, and Memory in Type 2 Diabetes. Diabetes Care, 2015, 38, 876-882.	8.6	32
22	Evaluation of individually body weight adapted contrast media injection in coronary CT-angiography. European Journal of Radiology, 2016, 85, 830-836.	2.6	30
23	Individually tailored contrast enhancement in CT pulmonary angiography. British Journal of Radiology, 2016, 89, 20150850.	2.2	30
24	Clinical assessment of aortic valve stenosis: Comparison between 4D flow MRI and transthoracic echocardiography. Journal of Magnetic Resonance Imaging, 2020, 51, 472-480.	3.4	30
25	Serial measurements in COVID-19-induced acute respiratory disease to unravel heterogeneity of the disease course: design of the Maastricht Intensive Care COVID cohort (MaastrICCht). BMJ Open, 2020, 10, e040175.	1.9	29
26	Hybrid 18Fâ€“FDG PET/MRI might improve locoregional staging of breast cancer patients prior to neoadjuvant chemotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1796-1805.	6.4	28
27	MRS: a noninvasive window into cardiac metabolism. NMR in Biomedicine, 2015, 28, 747-766.	2.8	26
28	Prophylactic Intravenous Hydration to Protect Renal Function From Intravascular Iodinated Contrast Material (AMACING): Long-term Results of a Prospective, Randomised, Controlled Trial. EClinicalMedicine, 2018, 4-5, 109-116.	7.1	26
29	Coronary CT angiography using low concentrated contrast media injected with high flow rates: Feasible in clinical practice. European Journal of Radiology, 2015, 84, 2155-2160.	2.6	25
30	Optimizing Pulmonary Embolism Computed Tomography in the Age of Individualized Medicine. Investigative Radiology, 2018, 53, 306-312.	6.2	25
31	Intraplaque Hemorrhage, Fibrous Cap Status, and Microembolic Signals in Symptomatic Patients With Mild to Moderate Carotid Artery Stenosis. Stroke, 2014, 45, 3423-3426.	2.0	24
32	Non-invasive assessment of microvascular dysfunction in patients with microvascular angina. International Journal of Cardiology, 2017, 248, 433-439.	1.7	23
33	Automated Tube Voltage Selection for Radiation Dose Reduction in CT Angiography Using Different Contrast Media Concentrations and a Constant Iodine Delivery Rate. American Journal of Roentgenology, 2015, 205, 1332-1338.	2.2	21
34	Acute chest pain in the high-sensitivity cardiac troponin era: A changing role for noninvasive imaging?. American Heart Journal, 2016, 177, 102-111.	2.7	20
35	Personalized Feedback on Staff Dose in Fluoroscopy-Guided Interventions: A New Era in Radiation Dose Monitoring. CardioVascular and Interventional Radiology, 2017, 40, 1756-1762.	2.0	20
36	Gonad shielding in pelvic radiography: modern optimised X-ray systems might allow its discontinuation. Insights Into Imaging, 2020, 11, 15.	3.4	20

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37	Feasibility of low contrast media volume in CT angiography of the aorta. European Journal of Radiology Open, 2015, 2, 58-65.	1.6	19
38	Contrast Media Administration in Coronary Computed Tomography Angiography â€“ A Systematic Review. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2017, 189, 312-325.	1.3	18
39	Pericardial fat and its influence on cardiac diastolic function. Cardiovascular Diabetology, 2020, 19, 129.	6.8	18
40	Cost-effectiveness modelling in diagnostic imaging: a stepwise approach. European Radiology, 2015, 25, 3629-3637.	4.5	17
41	Coronary calcium scores are systematically underestimated at a large chest size: A multivendor phantom study. Journal of Cardiovascular Computed Tomography, 2015, 9, 415-421.	1.3	16
42	Integration of cardiac magnetic resonance imaging, electrocardiographic imaging, and coronary venous computed tomography angiography for guidance of left ventricular lead positioning. Europace, 2019, 21, 626-635.	1.7	16
43	Serial markers of coagulation and inflammation and the occurrence of clinical pulmonary thromboembolism in mechanically ventilated patients with SARS-CoV-2 infection; the prospective Maastricht intensive care COVID cohort. Thrombosis Journal, 2021, 19, 35.	2.1	16
44	Potential of Î±7 nicotinic acetylcholine receptor PET imaging in atherosclerosis. Methods, 2017, 130, 90-104.	3.8	14
45	Computed Tomography Pulmonary Angiography during Pregnancy: Radiation Dose of Commonly Used Protocols and the Effect of Scan Length Optimization. Korean Journal of Radiology, 2019, 20, 313.	3.4	13
46	Impact of iodine concentration and iodine delivery rate on contrast enhancement in coronary CT angiography: a randomized multicenter trial (CT-CON). European Radiology, 2019, 29, 6109-6118.	4.5	13
47	Editor's Choice â€“ Extending Aortic Replacement Beyond the Proximal Arch in Acute Type A Aortic Dissection: A Meta-Analysis of Short Term Outcomes and Long Term Actuarial Survival. European Journal of Vascular and Endovascular Surgery, 2022, 63, 674-687.	1.5	13
48	Quantification of Respiratory Movement of the Aorta and Side Branches. Journal of Endovascular Therapy, 2015, 22, 905-911.	1.5	12
49	The role of cardiovascular magnetic resonance imaging and computed tomography angiography in suspected nonâ€“ST-elevation myocardial infarction patients: Design and rationale of the CARdiovascular Magnetic rEsoNance imaging and computed Tomography Angiography (CARMENTA) trial. American Heart Journal, 2013, 166, 968-975.	2.7	11
50	CT-Guided Percutaneous Transthoracic Needle Biopsies Using 10G Large-Core Needles: Initial Experience. CardioVascular and Interventional Radiology, 2015, 38, 1603-1610.	2.0	11
51	Individualized CT Angiography Protocols for the Evaluation of the Aorta: A Feasibility Study. Journal of Vascular and Interventional Radiology, 2016, 27, 531-538.	0.5	11
52	Vessel wall and adventitial DCEâ€MRI parameters demonstrate similar correlations with carotid plaque microvasculature on histology. Journal of Magnetic Resonance Imaging, 2017, 46, 1053-1059.	3.4	11
53	Nitroglycerin as a radiosensitizer in non-small cell lung cancer: Results of a prospective imaging-based phase II trial. Clinical and Translational Radiation Oncology, 2020, 21, 49-55.	1.7	11
54	Contrast-enhanced mammography: what the radiologist needs to know. BJR|Open, 2021, 3, 20210034.	0.6	11

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55	Development of anEx Vivo, Beating Heart Model for CT Myocardial Perfusion. BioMed Research International, 2015, 2015, 1-8.	1.9	10
56	Do CTA measurements of annular diameter, perimeter and area result in different TAVI prosthesis sizes?. International Journal of Cardiovascular Imaging, 2018, 34, 1819-1829.	1.5	10
57	An international multi-center investigation on the accuracy of radionuclide calibrators in nuclear medicine theragnostics. EJNMMI Physics, 2020, 7, 69.	2.7	10
58	Aortic root evaluation prior to transcatheter aortic valve implantationâ€"Correlation of manual and semi-automatic measurements. PLoS ONE, 2018, 13, e0199732.	2.5	9
59	No Association between Thrombin Generation and Intra-Plaque Haemorrhage in Symptomatic Carotid Atherosclerotic Plaques: The Plaque at RISK (PARISK) Study. Thrombosis and Haemostasis, 2018, 118, 1461-1469.	3.4	9
60	Clinical impact of assessing thrombus age using magnetic resonance venography prior to catheter-directed thrombolysis. European Radiology, 2022, 32, 4555-4564.	4.5	9
61	Longitudinal relaxation time editing for acetylcarnitine detection with 1 Hâ€MRS. Magnetic Resonance in Medicine, 2017, 77, 505-510.	3.0	8
62	Validation of myocardial perfusion quantification by dynamic CT in an ex-vivo porcine heart model. International Journal of Cardiovascular Imaging, 2017, 33, 1821-1830.	1.5	8
63	Heart rate lowering treatment leads to a reduction in vulnerable plaque features in atherosclerotic rabbits. PLoS ONE, 2017, 12, e0179024.	2.5	8
64	Implementation of Size-Dependent Local Diagnostic Reference Levels for CT Angiography. American Journal of Roentgenology, 2018, 210, W226-W233.	2.2	7
65	Personalization of injection protocols to the individual patientâ€™s blood volume and automated tube voltage selection (ATVS) in coronary CTA. PLoS ONE, 2018, 13, e0203682.	2.5	7
66	The skin dose of pelvic radiographs since 1896. Insights Into Imaging, 2019, 10, 39.	3.4	7
67	Intravenous hydration according to current guidelines in the prevention of contrast induced nephropathyâ€"the AMACING trial. Journal of Thoracic Disease, 2017, 9, E656-E657.	1.4	6
68	The role of standard non-ECG gated chest CT in cardiac assessment: design and rationale of the Cardiac Pathologies in standard chest CT (CaPaCT) study. European Radiology Experimental, 2018, 2, 9.	3.4	6
69	Optimizing Staff Dose in Fluoroscopy-Guided Interventions by Comparing Clinical Data with Phantom Experiments. Journal of Vascular and Interventional Radiology, 2019, 30, 701-708.e1.	0.5	6
70	Application of a Bilinear Rotation Decoupling (BIRD) filter in combination with Jâ€difference editing for indirect ¹³C measurements in the human liver. Magnetic Resonance in Medicine, 2020, 84, 2911-2917.	3.0	6
71	Contrast Enhancement of the Right Ventricle during Coronary CT Angiography â€“ Is It Necessary?. PLoS ONE, 2015, 10, e0128625.	2.5	6
72	Proximal Region of Carotid Atherosclerotic Plaque Shows More Intraplaque Hemorrhage: The Plaque at Risk Study. American Journal of Neuroradiology, 2022, 43, 265-271.	2.4	6

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73	Resveratrol treatment does not reduce arterial inflammation in males at risk of type 2 diabetes: a randomized crossover trial. Nuklearmedizin - NuclearMedicine, 2022, 61, 33-41.	0.7	6
74	Early X-ray workers: an effort to assess their numbers, risk, and most common (skin) affliction. Insights Into Imaging, 2016, 7, 275-282.	3.4	5
75	Functional MRI in Peripheral Arterial Disease: Arterial Peak Flow versus Ankle-Brachial Index. PLoS ONE, 2014, 9, e88471.	2.5	5
76	Gadobutrol versus gadofosveset-trisodium in MR venography of the lower extremities. European Radiology, 2017, 27, 4986-4994.	4.5	4
77	Cardiovascular magnetic resonance accurately detects obstructive coronary artery disease in suspected non-ST elevation myocardial infarction: a sub-analysis of the CARMENTA Trial. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 40.	3.3	4
78	A novel risk score for contrast-associated acute kidney injury: the heart of the matter. Lancet, The, 2021, 398, 1941-1943.	13.7	4
79	Finding the optimal tube current and iterative reconstruction strength in liver imaging; two needles in one haystack. PLoS ONE, 2022, 17, e0266194.	2.5	4
80	Impact of prompt gamma coincidence correction on absorbed dose estimation in differentiated thyroid cancer using 124I PET/CT imaging. Nuclear Medicine Communications, 2018, 39, 1156-1164.	1.1	3
81	Retrospectively ECG-gated helical vs. non-ECG-synchronized high-pitch CTA of the aortic root for TAVI planning. PLoS ONE, 2020, 15, e0232673.	2.5	3
82	To hydrate or not to hydrate? Lessons learned from the AMACING trial. Chinese Journal of Academic Radiology, 2019, 1, 2-5.	0.6	2
83	L-carnitine infusion does not alleviate lipid-induced insulin resistance and metabolic inflexibility. PLoS ONE, 2020, 15, e0239506.	2.5	2
84	Histopathological validation of semi-automated myocardial scar quantification techniques for dark-blood late gadolinium enhancement magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2023, 24, 364-372.	1.2	2
85	Effects of high-fat feeding on ectopic fat storage and postprandial lipid metabolism in mouse offspring. Obesity, 2015, 23, 2242-2250.	3.0	1
86	The impact of dark-blood versus conventional bright-blood late gadolinium enhancement on the myocardial ischemic burden. European Journal of Radiology, 2021, 144, 109947.	2.6	1
87	Short-term discontinuation of vagal nerve stimulation alters 18F-FDG blood pool activity: an exploratory interventional study in epilepsy patients. EJNMMI Research, 2019, 9, 101.	2.5	1
88	4D Flow MRI in Ascending Aortic Aneurysms: Reproducibility of Hemodynamic Parameters. Applied Sciences (Switzerland), 2022, 12, 3912.	2.5	1
89	Hydration and contrast-induced kidney injury â€“ Authors' reply. Lancet, The, 2017, 390, 454-455.	13.7	0
90	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0

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91	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0
92	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0
93	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0
94	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0
95	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. , 2020, 15, e0235844.		0