

# Joachim Ernst Wildberger

## List of Publications by Year in descending order

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95  
papers

5,946  
citations

218381

26  
h-index

79541

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. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 749-762.	12.5	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. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1719-1728.	1.2	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. <i>Lancet, The</i> , 2017, 389, 1312-1322.	6.3	364
4	Cerebral blood flow, blood supply, and cognition in Type 2 Diabetes Mellitus. <i>Scientific Reports</i> , 2016, 6, 10.	1.6	178
5	The Quality of Tumor Size Assessment by Contrast-Enhanced Spectral Mammography and the Benefit of Additional Breast MRI. <i>Journal of Cancer</i> , 2015, 6, 144-150.	1.2	99
6	International variation in radiation dose for computed tomography examinations: prospective cohort study. <i>BMJ: British Medical Journal</i> , 2019, 364, k4931.	2.4	98
7	A Deep Look Into the Future of Quantitative Imaging in Oncology: A Statement of Working Principles and Proposal for Change. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1074-1082.	0.4	86
8	Dual-Energy CT: What the Neuroradiologist Should Know. <i>Current Radiology Reports</i> , 2015, 3, 16.	0.4	76
9	Multiparametric imaging of patient and tumour heterogeneity in non-small-cell lung cancer: quantification of tumour hypoxia, metabolism and perfusion. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 240-248.	3.3	64
10	Aortic elongation part I: the normal aortic ageing process. <i>Heart</i> , 2018, 104, 1772-1777.	1.2	63
11	Initial Imaging-Guided Strategy Versus Routine Care in Patients With ST-Segment Elevation Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2019, 74, 2466-2477.	1.2	58
12	Functional Brain Networks Are Altered in Type 2 Diabetes and Prediabetes: Signs for Compensation of Cognitive Decrements? The Maastricht Study. <i>Diabetes</i> , 2016, 65, 2404-2413.	0.3	57
13	CT in relation to RT-PCR in diagnosing COVID-19 in The Netherlands: A prospective study. <i>PLoS ONE</i> , 2020, 15, e0235844.	1.1	56
14	Carnitine supplementation improves metabolic flexibility and skeletal muscle acetylcarnitine formation in volunteers with impaired glucose tolerance: A randomised controlled trial. <i>EBioMedicine</i> , 2019, 49, 318-330.	2.7	48
15	Proton magnetic resonance spectroscopy reveals increased hepatic lipid content after a single high-fat meal with no additional modulation by added protein. <i>American Journal of Clinical Nutrition</i> , 2015, 101, 65-71.	2.2	47
16	Low contrast media volume in pre-TAVI CT examinations. <i>European Radiology</i> , 2016, 26, 2426-2435.	2.3	44
17	Pulsatility of Lenticulostriate Arteries Assessed by 7 Tesla Flow MRI Measurement, Reproducibility, and Applicability to Aging Effect. <i>Frontiers in Physiology</i> , 2017, 8, 961.	1.3	39
18	Optimizing contrast media application in coronary CT angiography at lower tube voltage: Evaluation in a circulation phantom and sixty patients. <i>European Journal of Radiology</i> , 2016, 85, 1068-1074.	1.2	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.	0.9	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.	0.7	32
21	On the Interplay of Microvasculature, Parenchyma, and Memory in Type 2 Diabetes. Diabetes Care, 2015, 38, 876-882.	4.3	32
22	Evaluation of individually body weight adapted contrast media injection in coronary CT-angiography. European Journal of Radiology, 2016, 85, 830-836.	1.2	30
23	Individually tailored contrast enhancement in CT pulmonary angiography. British Journal of Radiology, 2016, 89, 20150850.	1.0	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.	1.9	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.	0.8	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.	3.3	28
27	MRS: a noninvasive window into cardiac metabolism. NMR in Biomedicine, 2015, 28, 747-766.	1.6	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.	3.2	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.	1.2	25
30	Optimizing Pulmonary Embolism Computed Tomography in the Age of Individualized Medicine. Investigative Radiology, 2018, 53, 306-312.	3.5	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.	1.0	24
32	Non-invasive assessment of microvascular dysfunction in patients with microvascular angina. International Journal of Cardiology, 2017, 248, 433-439.	0.8	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.	1.0	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.	1.2	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.	0.9	20
36	Gonad shielding in pelvic radiography: modern optimised X-ray systems might allow its discontinuation. Insights Into Imaging, 2020, 11, 15.	1.6	20

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37	Feasibility of low contrast media volume in CT angiography of the aorta. <i>European Journal of Radiology Open</i> , 2015, 2, 58-65.	0.7	19
38	Contrast Media Administration in Coronary Computed Tomography Angiography – A Systematic Review. <i>RoFo Fortschritte Auf Dem Gebiet Der Röntgenstrahlen Und Der Bildgebenden Verfahren</i> , 2017, 189, 312-325.	0.7	18
39	Pericardial fat and its influence on cardiac diastolic function. <i>Cardiovascular Diabetology</i> , 2020, 19, 129.	2.7	18
40	Cost-effectiveness modelling in diagnostic imaging: a stepwise approach. <i>European Radiology</i> , 2015, 25, 3629-3637.	2.3	17
41	Coronary calcium scores are systematically underestimated at a large chest size: A multivendor phantom study. <i>Journal of Cardiovascular Computed Tomography</i> , 2015, 9, 415-421.	0.7	16
42	Integration of cardiac magnetic resonance imaging, electrocardiographic imaging, and coronary venous computed tomography angiography for guidance of left ventricular lead positioning. <i>Europace</i> , 2019, 21, 626-635.	0.7	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. <i>Thrombosis Journal</i> , 2021, 19, 35.	0.9	16
44	Potential of $^{18}F$ nicotinic acetylcholine receptor PET imaging in atherosclerosis. <i>Methods</i> , 2017, 130, 90-104.	1.9	14
45	Computed Tomography Pulmonary Angiography during Pregnancy: Radiation Dose of Commonly Used Protocols and the Effect of Scan Length Optimization. <i>Korean Journal of Radiology</i> , 2019, 20, 313.	1.5	13
46	Impact of iodine concentration and iodine delivery rate on contrast enhancement in coronary CT angiography: a randomized multicenter trial (CT-CON). <i>European Radiology</i> , 2019, 29, 6109-6118.	2.3	13
47	Editor's Choice – 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. <i>European Journal of Vascular and Endovascular Surgery</i> , 2022, 63, 674-687.	0.8	13
48	Quantification of Respiratory Movement of the Aorta and Side Branches. <i>Journal of Endovascular Therapy</i> , 2015, 22, 905-911.	0.8	12
49	The role of cardiovascular magnetic resonance imaging and computed tomography angiography in suspected non-ST-elevation myocardial infarction patients: Design and rationale of the CARdiovascular Magnetic rEsonance imaging and computed Tomography Angiography (CARMENTA) trial. <i>American Heart Journal</i> , 2013, 166, 968-975.	1.2	11
50	CT-Guided Percutaneous Transthoracic Needle Biopsies Using 10G Large-Core Needles: Initial Experience. <i>CardioVascular and Interventional Radiology</i> , 2015, 38, 1603-1610.	0.9	11
51	Individualized CT Angiography Protocols for the Evaluation of the Aorta: A Feasibility Study. <i>Journal of Vascular and Interventional Radiology</i> , 2016, 27, 531-538.	0.2	11
52	Vessel wall and adventitial DCE-MRI parameters demonstrate similar correlations with carotid plaque microvasculature on histology. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1053-1059.	1.9	11
53	Nitroglycerin as a radiosensitizer in non-small cell lung cancer: Results of a prospective imaging-based phase II trial. <i>Clinical and Translational Radiation Oncology</i> , 2020, 21, 49-55.	0.9	11
54	Contrast-enhanced mammography: what the radiologist needs to know. <i>BJR   Open</i> , 2021, 3, 20210034.	0.4	11

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55	Development of an <i>Ex Vivo</i> , Beating Heart Model for CT Myocardial Perfusion. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	10
56	Do CTA measurements of annular diameter, perimeter and area result in different TAVI prosthesis sizes?. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 1819-1829.	0.7	10
57	An international multi-center investigation on the accuracy of radionuclide calibrators in nuclear medicine theragnostics. <i>EJNMMI Physics</i> , 2020, 7, 69.	1.3	10
58	Aortic root evaluation prior to transcatheter aortic valve implantation – Correlation of manual and semi-automatic measurements. <i>PLoS ONE</i> , 2018, 13, e0199732.	1.1	9
59	No Association between Thrombin Generation and Intra-Plaque Haemorrhage in Symptomatic Carotid Atherosclerotic Plaques: The Plaque at RISK (PARISK) Study. <i>Thrombosis and Haemostasis</i> , 2018, 118, 1461-1469.	1.8	9
60	Clinical impact of assessing thrombus age using magnetic resonance venography prior to catheter-directed thrombolysis. <i>European Radiology</i> , 2022, 32, 4555-4564.	2.3	9
61	Longitudinal relaxation time editing for acetylcarnitine detection with 1 H MRS. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 505-510.	1.9	8
62	Validation of myocardial perfusion quantification by dynamic CT in an ex-vivo porcine heart model. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 1821-1830.	0.7	8
63	Heart rate lowering treatment leads to a reduction in vulnerable plaque features in atherosclerotic rabbits. <i>PLoS ONE</i> , 2017, 12, e0179024.	1.1	8
64	Implementation of Size-Dependent Local Diagnostic Reference Levels for CT Angiography. <i>American Journal of Roentgenology</i> , 2018, 210, W226-W233.	1.0	7
65	Personalization of injection protocols to the individual patient's blood volume and automated tube voltage selection (ATVS) in coronary CTA. <i>PLoS ONE</i> , 2018, 13, e0203682.	1.1	7
66	The skin dose of pelvic radiographs since 1896. <i>Insights Into Imaging</i> , 2019, 10, 39.	1.6	7
67	Intravenous hydration according to current guidelines in the prevention of contrast induced nephropathy – the AMACING trial. <i>Journal of Thoracic Disease</i> , 2017, 9, E656-E657.	0.6	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. <i>European Radiology Experimental</i> , 2018, 2, 9.	1.7	6
69	Optimizing Staff Dose in Fluoroscopy-Guided Interventions by Comparing Clinical Data with Phantom Experiments. <i>Journal of Vascular and Interventional Radiology</i> , 2019, 30, 701-708.e1.	0.2	6
70	Application of a Bilinear Rotation Decoupling (BIRD) filter in combination with J-difference editing for indirect <sup>13</sup> C measurements in the human liver. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2911-2917.	1.9	6
71	Contrast Enhancement of the Right Ventricle during Coronary CT Angiography – Is It Necessary?. <i>PLoS ONE</i> , 2015, 10, e0128625.	1.1	6
72	Proximal Region of Carotid Atherosclerotic Plaque Shows More Intraplaque Hemorrhage: The Plaque at Risk Study. <i>American Journal of Neuroradiology</i> , 2022, 43, 265-271.	1.2	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. <i>Nuklearmedizin - NuclearMedicine</i> , 2022, 61, 33-41.	0.3	6
74	Early X-ray workers: an effort to assess their numbers, risk, and most common (skin) affliction. <i>Insights Into Imaging</i> , 2016, 7, 275-282.	1.6	5
75	Functional MRI in Peripheral Arterial Disease: Arterial Peak Flow versus Ankle-Brachial Index. <i>PLoS ONE</i> , 2014, 9, e88471.	1.1	5
76	Gadobutrol versus gadofosveset-trisodium in MR venography of the lower extremities. <i>European Radiology</i> , 2017, 27, 4986-4994.	2.3	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 40.	1.6	4
78	A novel risk score for contrast-associated acute kidney injury: the heart of the matter. <i>Lancet, The</i> , 2021, 398, 1941-1943.	6.3	4
79	Finding the optimal tube current and iterative reconstruction strength in liver imaging; two needles in one haystack. <i>PLoS ONE</i> , 2022, 17, e0266194.	1.1	4
80	Impact of prompt gamma coincidence correction on absorbed dose estimation in differentiated thyroid cancer using <sup>124</sup> I PET/CT imaging. <i>Nuclear Medicine Communications</i> , 2018, 39, 1156-1164.	0.5	3
81	Retrospectively ECG-gated helical vs. non-ECG-synchronized high-pitch CTA of the aortic root for TAVI planning. <i>PLoS ONE</i> , 2020, 15, e0232673.	1.1	3
82	To hydrate or not to hydrate? Lessons learned from the AMACING trial. <i>Chinese Journal of Academic Radiology</i> , 2019, 1, 2-5.	0.4	2
83	L-carnitine infusion does not alleviate lipid-induced insulin resistance and metabolic inflexibility. <i>PLoS ONE</i> , 2020, 15, e0239506.	1.1	2
84	Histopathological validation of semi-automated myocardial scar quantification techniques for dark-blood late gadolinium enhancement magnetic resonance imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2023, 24, 364-372.	0.5	2
85	Effects of high-fat feeding on ectopic fat storage and postprandial lipid metabolism in mouse offspring. <i>Obesity</i> , 2015, 23, 2242-2250.	1.5	1
86	The impact of dark-blood versus conventional bright-blood late gadolinium enhancement on the myocardial ischemic burden. <i>European Journal of Radiology</i> , 2021, 144, 109947.	1.2	1
87	Short-term discontinuation of vagal nerve stimulation alters <sup>18</sup> F-FDG blood pool activity: an exploratory interventional study in epilepsy patients. <i>EJNMMI Research</i> , 2019, 9, 101.	1.1	1
88	4D Flow MRI in Ascending Aortic Aneurysms: Reproducibility of Hemodynamic Parameters. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3912.	1.3	1
89	Hydration and contrast-induced kidney injury – Authors' reply. <i>Lancet, The</i> , 2017, 390, 454-455.	6.3	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