

# Marcel J W Greuter

## List of Publications by Year in descending order

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100  
papers

1,840  
citations

304368

22  
h-index

377514

34  
g-index

104  
all docs

104  
docs citations

104  
times ranked

2358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital breast tomosynthesis for breast cancer screening and diagnosis in women with dense breasts – a systematic review and meta-analysis. <i>BMC Cancer</i> , 2018, 18, 380.	1.1	90
2	Optimisation of volume-doubling time cutoff for fast-growing lung nodules in CT lung cancer screening reduces false-positive referrals. <i>European Radiology</i> , 2013, 23, 1836-1845.	2.3	79
3	Calcium scoring using 64-slice MDCT, dual source CT and EBT: a comparative phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2008, 24, 547-556.	0.7	76
4	Exposure to low-dose radiation and the risk of breast cancer among women with a familial or genetic predisposition: a meta-analysis. <i>European Radiology</i> , 2010, 20, 2547-2556.	2.3	66
5	Sensitivity and accuracy of volumetry of pulmonary nodules on low-dose 16- and 64-row multi-detector CT: an anthropomorphic phantom study. <i>European Radiology</i> , 2013, 23, 139-147.	2.3	55
6	The Influence of Heart Rate, Slice Thickness, and Calcification Density on Calcium Scores Using 64-Slice Multidetector Computed Tomography. <i>Investigative Radiology</i> , 2007, 42, 848-855.	3.5	54
7	Improving the reproducibility of MR-derived left ventricular volume and function measurements with a semi-automatic threshold-based segmentation algorithm. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 617-623.	0.7	44
8	Unenhanced CT imaging is highly sensitive to exclude pheochromocytoma: a multicenter study. <i>European Journal of Endocrinology</i> , 2018, 178, 431-437.	1.9	44
9	Feasibility of computed tomography based thermometry during interstitial laser heating in bovine liver. <i>European Radiology</i> , 2011, 21, 1733-1738.	2.3	43
10	Leukemia and brain tumors among children after radiation exposure from CT scans: design and methodological opportunities of the Dutch Pediatric CT Study. <i>European Journal of Epidemiology</i> , 2014, 29, 293-301.	2.5	40
11	Is the coronary artery calcium score associated with acute coronary events in breast cancer patients treated with radiotherapy?. <i>Radiotherapy and Oncology</i> , 2018, 126, 170-176.	0.3	40
12	Influence of iterative image reconstruction on CT-based calcium score measurements. <i>International Journal of Cardiovascular Imaging</i> , 2014, 30, 961-7.	0.7	39
13	CT-based temperature monitoring during hepatic RF ablation: Feasibility in an animal model. <i>International Journal of Hyperthermia</i> , 2012, 28, 55-61.	1.1	38
14	Which screening strategy should be offered to women with BRCA1 or BRCA2 mutations? A simulation of comparative cost-effectiveness. <i>British Journal of Cancer</i> , 2013, 108, 1579-1586.	2.9	34
15	Study on motion artifacts in coronary arteries with an anthropomorphic moving heart phantom on an ECG-gated multidetector computed tomography unit. <i>European Radiology</i> , 2005, 15, 995-1007.	2.3	30
16	Simulation models in population breast cancer screening: A systematic review. <i>Breast</i> , 2015, 24, 354-363.	0.9	30
17	Coronary artery calcium: A technical argument for a new scoring method. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 347-352.	0.7	30
18	Cost-effectiveness of lung cancer screening with low-dose computed tomography in heavy smokers: a microsimulation modelling study. <i>European Journal of Cancer</i> , 2020, 135, 121-129.	1.3	30

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19	Feasibility of Noninvasive Temperature Assessment During Radiofrequency Liver Ablation on Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2011, 35, 356-360.	0.5	29
20	Small Irregular Pulmonary Nodules in Low-Dose CT: Observer Detection Sensitivity and Volumetry Accuracy. <i>American Journal of Roentgenology</i> , 2014, 202, W202-W209.	1.0	27
21	Influence of heart rate on coronary calcium scores: a multi-manufacturer phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 959-966.	0.7	25
22	Breast Cancer Incidence After Risk-Reducing Salpingo-Oophorectomy in <i>BRCA1</i> and <i>BRCA2</i> Mutation Carriers. <i>Cancer Prevention Research</i> , 2012, 5, 1291-1297.	0.7	24
23	Quantitative Comparison of Commercial and Non-Commercial Metal Artifact Reduction Techniques in Computed Tomography. <i>PLoS ONE</i> , 2015, 10, e0127932.	1.1	23
24	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. <i>PLoS ONE</i> , 2018, 13, e0209318.	1.1	23
25	A model for quantitative correction of coronary calcium scores on multidetector, dual source, and electron beam computed tomography for influences of linear motion, calcification density, and temporal resolution: A cardiac phantom study. <i>Medical Physics</i> , 2009, 36, 5079-5088.	1.6	22
26	Dose Reduction in Coronary Artery Calcium Scoring Using Mono-Energetic Images from Reduced Tube Voltage Dual-Source Photon-Counting CT Data: A Dynamic Phantom Study. <i>Diagnostics</i> , 2021, 11, 2192.	1.3	22
27	The impact of dose reduction on the quantification of coronary artery calcifications and risk categorization: A systematic review. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 352-363.	0.7	21
28	Initial Results on Visualization of Coronary Artery Stents at Multiple Heart Rates on a Moving Heart Phantom Using 64-MDCT. <i>Journal of Computer Assisted Tomography</i> , 2006, 30, 812-817.	0.5	20
29	A new approach to the assessment of lumen visibility of coronary artery stent at various heart rates using 64-slice MDCT. <i>European Radiology</i> , 2007, 17, 1879-1884.	2.3	20
30	Comparison of MRI, 64-slice MDCT and DSCT in assessing functional cardiac parameters of a moving heart phantom. <i>European Radiology</i> , 2009, 19, 577-583.	2.3	20
31	Assessment of image quality of 64-row Dual Source versus Single Source CT coronary angiography on heart rate: A phantom study. <i>European Journal of Radiology</i> , 2009, 70, 61-68.	1.2	20
32	Feasibility and accuracy of tissue characterization with dual source computed tomography. <i>Physica Medica</i> , 2012, 28, 25-32.	0.4	20
33	Visceral adipose tissue volume is associated with premature atherosclerosis in early type 2 diabetes mellitus independent of traditional risk factors. <i>Atherosclerosis</i> , 2019, 290, 87-93.	0.4	20
34	Diagnostic Accuracy of Computed Tomography to Exclude Pheochromocytoma: A Systematic Review, Meta-analysis, and Cost Analysis. <i>Mayo Clinic Proceedings</i> , 2019, 94, 2040-2052.	1.4	20
35	The validation of a simulation model incorporating radiation risk for mammography breast cancer screening in women with a hereditary-increased breast cancer risk. <i>European Journal of Cancer</i> , 2010, 46, 495-504.	1.3	19
36	Relative electron density determination using a physics based parameterization of photon interactions in medical DECT. <i>Physics in Medicine and Biology</i> , 2015, 60, 3825-3846.	1.6	19

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37	Is Ultrasound an Accurate Alternative for Mammography in Breast Cancer Screening in an Asian Population? A Meta-Analysis. <i>Diagnostics</i> , 2020, 10, 985.	1.3	19
38	Can nontriggered thoracic CT be used for coronary artery calcium scoring? A phantom study. <i>Medical Physics</i> , 2013, 40, 081915.	1.6	18
39	The value of PET/CT with FES or FDG tracers in metastatic breast cancer: a computer simulation study in ER-positive patients. <i>British Journal of Cancer</i> , 2015, 112, 1617-1625.	2.9	18
40	Increased life expectancy as a result of non-hormonal targeted therapies for HER2 or hormone receptor positive metastatic breast cancer: A systematic review and meta-analysis. <i>Cancer Treatment Reviews</i> , 2017, 55, 16-25.	3.4	18
41	Quantification of abdominal aortic calcification: Inherent measurement errors in current computed tomography imaging. <i>PLoS ONE</i> , 2018, 13, e0193419.	1.1	18
42	64 slice MDCT generally underestimates coronary calcium scores as compared to EBT: A phantom study. <i>Medical Physics</i> , 2007, 34, 3510-3519.	1.6	17
43	A model for temporal resolution of multidetector computed tomography of coronary arteries in relation to rotation time, heart rate and reconstruction algorithm. <i>European Radiology</i> , 2007, 17, 784-812.	2.3	17
44	Assessment of thermal sensitivity of CT during heating of liver: an <i>in vivo</i> study. <i>British Journal of Radiology</i> , 2012, 85, e661-e665.	1.0	17
45	Feasibility of spectral shaping for detection and quantification of coronary calcifications in ultra-low dose CT. <i>European Radiology</i> , 2017, 27, 2047-2054.	2.3	17
46	Motion-corrected coronary calcium scores by a convolutional neural network: a robotic simulating study. <i>European Radiology</i> , 2020, 30, 1285-1294.	2.3	17
47	Fully automated quantification method (FQM) of coronary calcium in an anthropomorphic phantom. <i>Medical Physics</i> , 2021, 48, 3730-3740.	1.6	17
48	Automated bone removal in CT angiography: Comparison of methods based on single energy and dual energy scans. <i>Medical Physics</i> , 2011, 38, 6128-6137.	1.6	16
49	Calcium score of small coronary calcifications on multidetector computed tomography: Results from a static phantom study. <i>European Journal of Radiology</i> , 2013, 82, e58-e63.	1.2	16
50	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
51	Lung Nodule Detectability of Artificial Intelligence-assisted CT Image Reading in Lung Cancer Screening. <i>Current Medical Imaging</i> , 2022, 18, 327-334.	0.4	16
52	Inter- and intrascanner variability of pulmonary nodule volumetry on low-dose 64-row CT: an anthropomorphic phantom study. <i>British Journal of Radiology</i> , 2013, 86, 20130160.	1.0	15
53	Threshold adjusted calcium scoring using CT is less susceptible to cardiac motion and more accurate. <i>Medical Physics</i> , 2009, 36, 438-446.	1.6	14
54	Coronary calcium mass scores measured by identical 64-slice MDCT scanners are comparable: a cardiac phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 89-98.	0.7	14

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55	Early health technology assessment of magnetic resonance-guided high intensity focused ultrasound ablation for the treatment of early-stage breast cancer. <i>Journal of Therapeutic Ultrasound</i> , 2017, 5, 23.	2.2	14
56	A modelling study to evaluate the costs and effects of lowering the starting age of population breast cancer screening. <i>Maturitas</i> , 2018, 109, 81-88.	1.0	14
57	Molecular imaging with positron emission tomography and computed tomography (PET/CT) for selecting first-line targeted treatment in metastatic breast cancer: a cost-effectiveness study. <i>Oncotarget</i> , 2018, 9, 19836-19846.	0.8	13
58	Coronary calcium scores on dual-source photon-counting computed tomography: an adapted Agatston methodology aimed at radiation dose reduction. <i>European Radiology</i> , 2022, 32, 5201-5209.	2.3	13
59	Influence of dose reduction and iterative reconstruction on CT calcium scores: a multi-manufacturer dynamic phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2017, 33, 899-914.	0.7	12
60	Influence of iterative reconstruction on coronary calcium scores at multiple heart rates: a multivendor phantom study on state-of-the-art CT systems. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 947-957.	0.7	12
61	Quantitative imaging: systematic review of perfusion/flow phantoms. <i>European Radiology Experimental</i> , 2020, 4, 15.	1.7	12
62	Reproducibility of coronary artery calcium quantification on dual-source CT and dual-source photon-counting CT: a dynamic phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 1613-1619.	0.7	12
63	Mammographic sensitivity as a function of tumor size: A novel estimation based on population-based screening data. <i>Breast</i> , 2021, 55, 69-74.	0.9	11
64	Detectability of motions in AAA with ECG-gated CTA: A quantitative study. <i>Medical Physics</i> , 2009, 36, 4616-4624.	1.6	10
65	The Use of CT Scan in Hemodynamically Stable Children with Blunt Abdominal Trauma: Look before You Leap. <i>European Journal of Pediatric Surgery</i> , 2016, 26, 332-335.	0.7	10
66	Coronary Artery Calcium Scoring. <i>Investigative Radiology</i> , 2022, 57, 13-22.	3.5	10
67	Cost-effectiveness of abbreviated-protocol MRI screening for women with mammographically dense breasts in a national breast cancer screening program. <i>Breast</i> , 2022, 61, 58-65.	0.9	10
68	Non-calcified coronary atherosclerotic plaque visualization on CT: effects of contrast-enhancement and lipid-content fractions. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 1137-1148.	0.7	9
69	The cost-effectiveness of digital breast tomosynthesis in a population breast cancer screening program. <i>European Radiology</i> , 2020, 30, 5437-5445.	2.3	9
70	Overdiagnosis of invasive breast cancer in population-based breast cancer screening: A short- and long-term perspective. <i>European Journal of Cancer</i> , 2022, 173, 1-9.	1.3	9
71	Accuracy of Noninvasive Coronary Stenosis Quantification of Different Commercially Available Dedicated Software Packages. <i>Journal of Computer Assisted Tomography</i> , 2009, 33, 505-512.	0.5	8
72	Should women with a BRCA1/2 mutation aged 60 and older be offered intensified breast cancer screening? "A cost-effectiveness analysis. <i>Breast</i> , 2019, 45, 82-88.	0.9	8

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73	[18F]FDG Uptake in Adipose Tissue Is Not Related to Inflammation in Type 2 Diabetes Mellitus. <i>Molecular Imaging and Biology</i> , 2021, 23, 117-126.	1.3	8
74	Assessment of coronary calcification using calibrated mass score with two different multidetector computed tomography scanners in the Copenhagen General Population Study. <i>European Journal of Radiology</i> , 2017, 88, 21-25.	1.2	7
75	A Mossbauer study on solid krypton precipitates in aluminium. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 3541-3554.	0.7	6
76	Feasibility of measuring renal blood flow by phase-contrast magnetic resonance imaging in patients with autosomal dominant polycystic kidney disease. <i>European Radiology</i> , 2016, 26, 683-692.	2.3	6
77	Krypton incorporation in sputtered silicon films. <i>Hyperfine Interactions</i> , 1993, 79, 669-674.	0.2	5
78	Kr incorporation in sputtered amorphous Si layers. <i>Journal of Applied Physics</i> , 1995, 77, 3467-3478.	1.1	5
79	Evaluating a calcium-aware kernel for CT CAC scoring with varying surrounding materials and heart rates: a dynamic phantom study. <i>European Radiology</i> , 2021, 31, 9211-9220.	2.3	5
80	Assessment of the Benefits and Cost-Effectiveness of Population-Based Breast Cancer Screening in Urban China: A Model-Based Analysis. <i>International Journal of Health Policy and Management</i> , 2021, , .	0.5	5
81	Development of a dynamic myocardial perfusion phantom model for tracer kinetic measurements. <i>EJNMMI Physics</i> , 2022, 9, 31.	1.3	5
82	Quantitative image analysis for the detection of motion artefacts in coronary artery computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 77-87.	0.7	4
83	The Cumulative Risk of Multiple CT Exposures Using Two Different Methods. <i>Health Physics</i> , 2014, 106, 475-483.	0.3	4
84	Development of a dedicated 3D printed myocardial perfusion phantom: proof-of-concept in dynamic SPECT. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 1541-1550.	1.6	4
85	The retention of krypton in polycrystalline silicon during high-temperature annealing. <i>Philosophical Magazine Letters</i> , 1994, 70, 241-245.	0.5	3
86	Circumference as an alternative for diameter measurement in endovascular aneurysm repair. <i>Medical Hypotheses</i> , 2015, 85, 230-233.	0.8	3
87	Supplementary data for a model-based health economic evaluation on lung cancer screening with low-dose computed tomography in a high-risk population. <i>Data in Brief</i> , 2020, 31, 105999.	0.5	3
88	Classification of moving coronary calcified plaques based on motion artifacts using convolutional neural networks: a robotic simulating study on influential factors. <i>BMC Medical Imaging</i> , 2021, 21, 151.	1.4	3
89	Determinants of Population-Based Cancer Screening Performance at Primary Healthcare Institutions in China. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3312.	1.2	2
90	The Role of Socio-Demographic Factors in the Coverage of Breast Cancer Screening: Insights From a Quantile Regression Analysis. <i>Frontiers in Public Health</i> , 2021, 9, 648278.	1.3	2

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91	Cost-effectiveness of lung cancer screening by low-dose CT in China: a micro-simulation study. Journal of the National Cancer Center, 2021, , .	3.0	2
92	Lung cancer screening with low-dose CT: Simulating the effect of starting screening at a younger age in women. European Journal of Radiology, 2022, 148, 110182.	1.2	2
93	Performance of visual, manual, and automatic coronary calcium scoring of cardiac <sup>13</sup> N-ammonia PET/low dose CT. Journal of Nuclear Cardiology, 2023, 30, 239-250.	1.4	2
94	Highly pressurized Kr agglomerates in sputtered Si films. Thin Solid Films, 1994, 241, 12-15.	0.8	1
95	Diagnostic quality of time-averaged ECG-gated CT data. Proceedings of SPIE, 2009, , .	0.8	1
96	Molecular dynamics simulation of the lattice dynamics of solid Kr. Computational Materials Science, 1994, 2, 308-318.	1.4	0
97	A cardiac phantom study on quantitative correction of coronary calcium score on multi-detector, dual source, and electron beam tomography for velocity, calcification density, and acquisition time. , 2009, , .		0
98	Correspondence â€œ Reply to THEBREAST-D-15-702. Breast, 2016, 27, 184-185.	0.9	0
99	OC-0091: Prognostic value of calcium score in breast cancer patients treated with radiotherapy. Radiotherapy and Oncology, 2018, 127, S48-S49.	0.3	0
100	<sup>18</sup> F-Fdg Uptake In Visceral Adipose Tissue Is Inversely Associated To Insulin Resistance And Adiponectin. Atherosclerosis, 2019, 287, e130.	0.4	0