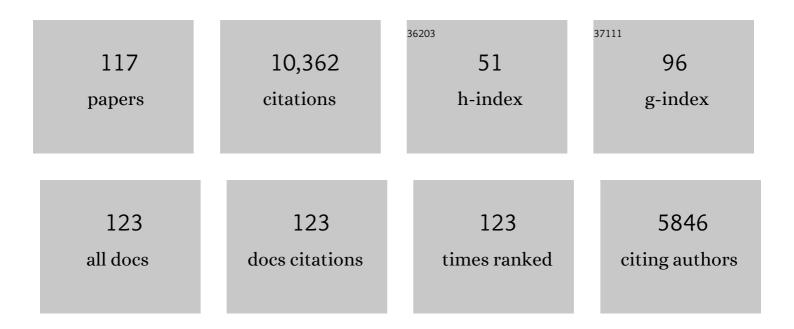
Thomas Flohr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Material differentiation by dual energy CT: initial experience. European Radiology, 2007, 17, 1510-1517.	2.3	1,384
2	Multislice helical CT of the heart with retrospective ECG gating: reduction of radiation exposure by ECG-controlled tube current modulation. European Radiology, 2002, 12, 1081-1086.	2.3	601
3	Cardiac Imaging by Means of Electrocardiographically Gated Multisection Spiral CT: Initial Experience. Radiology, 2000, 217, 564-571.	3.6	506
4	Subsecond multi-slice computed tomography: basics and applications. European Journal of Radiology, 1999, 31, 110-124.	1.2	430
5	Contrast-enhanced coronary artery visualization by dual-source computed tomography—Initial experience. European Journal of Radiology, 2006, 57, 331-335.	1.2	368
6	A machine-learning approach for computation of fractional flow reserve from coronary computed tomography. Journal of Applied Physiology, 2016, 121, 42-52.	1.2	288
7	High-pitch spiral acquisition: A new scan mode for coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2009, 3, 117-121.	0.7	233
8	Lung Perfusion with Dual-energy Multidetector-row CT (MDCT). Academic Radiology, 2008, 15, 1494-1504.	1.3	232
9	Heart Rate Adaptive Optimization of Spatial and Temporal Resolution for Electrocardiogram-Gated Multislice Spiral CT of the Heart. Journal of Computer Assisted Tomography, 2001, 25, 907-923.	0.5	230
10	Photon-counting CT review. Physica Medica, 2020, 79, 126-136.	0.4	225
11	Raw data-based iterative reconstruction in body CTA: evaluation of radiation dose saving potential. European Radiology, 2011, 21, 2521-2526.	2.3	223
12	Chest computed tomography using iterative reconstruction vs filtered back projection (Part 2): image quality of low-dose CT examinations in 80 patients. European Radiology, 2011, 21, 636-643.	2.3	219
13	64-slice multidetector coronary CT angiography: in vitro evaluation of 68 different stents. European Radiology, 2006, 16, 818-826.	2.3	206
14	Ultralow-Dose Chest Computed Tomography for Pulmonary Nodule Detection. Investigative Radiology, 2014, 49, 465-473.	3.5	206
15	Prospectively ECG-triggered high-pitch spiral acquisition for coronary CT angiography using dual source CT: technique and initial experience. European Radiology, 2009, 19, 2576-2583.	2.3	192
16	Ultra-high resolution flat-panel volume CT: fundamental principles, design architecture, and system characterization. European Radiology, 2006, 16, 1191-1205.	2.3	186
17	Flat-Panel Volume CT: Fundamental Principles, Technology, and Applications. Radiographics, 2008, 28, 2009-2022.	1.4	185
18	Image Quality, Motion Artifacts, and Reconstruction Timing of 64-Slice Coronary Computed Tomography Angiography With 0.33-Second Rotation Speed. Investigative Radiology, 2006, 41, 436-442.	3.5	178

#	Article	IF	CITATIONS
19	Comparison of Angular and Combined Automatic Tube Current Modulation Techniques with Constant Tube Current CT of the Abdomen and Pelvis. American Journal of Roentgenology, 2006, 186, 673-679.	1.0	178
20	Chest computed tomography using iterative reconstruction vs filtered back projection (Part 1): evaluation of image noise reduction in 32 patients. European Radiology, 2011, 21, 627-635.	2.3	167
21	Automated Attenuation-Based Tube Potential Selection for Thoracoabdominal Computed Tomography Angiography. Investigative Radiology, 2011, 46, 767-773.	3.5	159
22	Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT. European Radiology, 2017, 27, 3904-3912.	2.3	150
23	Spectral Optimization of Chest CT Angiography with Reduced Iodine Load: Experience in 80 Patients Evaluated with Dual-Source, Dual-Energy CT. Radiology, 2013, 267, 256-266.	3.6	143
24	Weighted FBP—a simple approximate 3D FBP algorithm for multislice spiral CT with good dose usage for arbitrary pitch. Physics in Medicine and Biology, 2004, 49, 2209-2218.	1.6	142
25	Low-dose CT of the lung: potential value of iterative reconstructions. European Radiology, 2012, 22, 2597-2606.	2.3	133
26	Wavelet Based Noise Reduction in CT-Images Using Correlation Analysis. IEEE Transactions on Medical Imaging, 2008, 27, 1685-1703.	5.4	132
27	Advances in cardiac CT imaging: 64-slice scanner. International Journal of Cardiovascular Imaging, 2004, 20, 535-540.	0.7	121
28	Principles and applications of multienergy CT: Report of AAPM Task Group 291. Medical Physics, 2020, 47, e881-e912.	1.6	117
29	Image Fusion in Dual Energy Computed Tomography. Investigative Radiology, 2009, 44, 1-6.	3.5	116
30	Quantitative Whole Heart Stress Perfusion CT Imaging as Noninvasive Assessment of Hemodynamics in Coronary Artery Stenosis. Investigative Radiology, 2010, 45, 298-305.	3.5	106
31	Multidetector-row computed tomography and magnetic resonance imaging of atherosclerotic lesions in human ex vivo coronary arteries. Atherosclerosis, 2004, 174, 243-252.	0.4	102
32	Reduced-Dose Low-Voltage Chest CT Angiography with Sinogram-affirmed Iterative Reconstruction versus Standard-Dose Filtered Back Projection. Radiology, 2013, 267, 609-618.	3.6	95
33	64- Versus 16-Slice CT Angiography for Coronary Artery Stent Assessment. Investigative Radiology, 2006, 41, 22-27.	3.5	94
34	Photon-Counting CT. Investigative Radiology, 2018, 53, 143-149.	3.5	91
35	Accuracy of Density Measurements Within Plaques Located in Artificial Coronary Arteries by X-Ray Multislice CT: Results of a Phantom Study. Journal of Computer Assisted Tomography, 2001, 25, 900-906.	0.5	87
36	Assessment of coronary artery stents using 16-slice MDCT angiography: evaluation of a dedicated reconstruction kernel and a noise reduction filter. European Radiology, 2005, 15, 721-726.	2.3	87

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37	Electronic Noise in CT Detectors: Impact on Image Noise and Artifacts. American Journal of Roentgenology, 2013, 201, W626-W632.	1.0	83
38	Do Segmented Reconstruction Algorithms for Cardiac Multi-Slice Computed Tomography Improve Image Quality?. Herz, 2003, 28, 20-31.	0.4	78
39	The assessment of intracranial bleeding with virtual unenhanced imaging by means of dual-energy CT angiography. European Radiology, 2009, 19, 2518-2522.	2.3	73
40	Dual-Phase Dual-Energy CT in Patients Treated with Erlotinib for Advanced Non-Small Cell Lung Cancer: Possible Benefits of Iodine Quantification in Response Assessment. European Radiology, 2016, 26, 2828-2836.	2.3	66
41	Individually Adapted Examination Protocols for Reduction of Radiation Exposure in Chest CT. Investigative Radiology, 2001, 36, 604-611.	3.5	63
42	Dual-Source Computed Tomography. Investigative Radiology, 2007, 42, 196-203.	3.5	62
43	Cardiac spiral dual-source CT with high pitch: a feasibility study. European Radiology, 2009, 19, 2357-2362.	2.3	60
44	Improving bestâ€phase image quality in cardiac CT by motion correction with MAM optimization. Medical Physics, 2013, 40, 031901.	1.6	60
45	Thoracic applications of dual-source CT technology. European Journal of Radiology, 2008, 68, 375-384.	1.2	59
46	Lowering Kilovoltage to Reduce Radiation Dose in Contrast-Enhanced Abdominal CT: Initial Assessment of a Prototype Automated Kilovoltage Selection Tool. American Journal of Roentgenology, 2012, 199, 1070-1077.	1.0	59
47	Automatic Selection of Tube Potential for Radiation Dose Reduction in Vascular and Contrast-Enhanced Abdominopelvic CT. American Journal of Roentgenology, 2013, 201, W297-W306.	1.0	58
48	Coronary arteries: assessment of image quality and optimal reconstruction window in retrospective ECG-gated multislice CT at 375-ms gantry rotation time. European Radiology, 2005, 15, 296-304.	2.3	57
49	Ultra-low-dose coronary artery calcium screening using multislice CT with retrospective ECG gating. European Radiology, 2003, 13, 1923-1930.	2.3	56
50	Performance Evaluation of a Multi-Slice CT System with 16-Slice Detector and Increased Gantry Rotation Speed for Isotropic Submillimeter Imaging of the Heart. Herz, 2003, 28, 7-19.	0.4	56
51	Multislice CT angiography. European Radiology, 2003, 13, 1946-1961.	2.3	55
52	Pulmonary imaging using dual-energy CT, a role of the assessment of iodine and air distribution. European Journal of Radiology, 2011, 77, 287-293.	1.2	53
53	Modified Dual-Energy Algorithm for Calcified Plaque Removal. Investigative Radiology, 2017, 52, 680-685.	3.5	50
54	Segmented multiple plane reconstruction: a novel approximate reconstruction scheme for multi-slice spiral CT. Physics in Medicine and Biology, 2002, 47, 2571-2581.	1.6	49

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55	Dynamic Iterative Beam Hardening Correction (DIBHC) in Myocardial Perfusion Imaging Using Contrast-Enhanced Computed Tomography. Investigative Radiology, 2010, 45, 314-323.	3.5	49
56	Photon-Counting Detector CT-Based Vascular Calcium Removal Algorithm. Investigative Radiology, 2022, 57, 399-405.	3.5	47
57	Multidetector-row cardiac CT: diagnostic value of calcium scoring and CT coronary angiography in patients with symptomatic, but atypical, chest pain. European Radiology, 2004, 14, 169-177.	2.3	46
58	Performance evaluation of xâ€ray differential phase contrast computed tomography (PCT) with respect to medical imaging. Medical Physics, 2012, 39, 4761-4774.	1.6	46
59	Improved coronary artery stent visualization and in-stent stenosis detection using 16-slice computed-tomography and dedicated image reconstruction technique. Investigative Radiology, 2003, 38, 790-5.	3.5	45
60	Accuracy and Reliability of Quantitative Measurements in Coronary Arteries by Multi-slice Computed Tomography: Experimental and Initial Clinical Results. Clinical Radiology, 2001, 56, 466-474.	0.5	42
61	Spatial domain filtering for fast modification of the tradeoff between image sharpness and pixel noise in computed tomography. IEEE Transactions on Medical Imaging, 2003, 22, 846-853.	5.4	40
62	Clinical evaluation of automatic tube voltage selection in chest CT angiography. European Radiology, 2013, 23, 2643-2651.	2.3	39
63	Computed tomography recent history and future perspectives. Journal of Medical Imaging, 2021, 8, 052109.	0.8	39
64	Next generation coronary CT angiography: in vitro evaluation of 27 coronary stents. European Radiology, 2014, 24, 2953-2961.	2.3	38
65	Dual-source chest CT angiography with high temporal resolution and high pitch modes: evaluation of image quality in 140 patients. European Radiology, 2010, 20, 1188-1196.	2.3	37
66	Artificial Intelligence in Diagnostic Imaging. Journal of Thoracic Imaging, 2020, 35, S11-S16.	0.8	35
67	Flat panel computed tomography of human ex vivo heart and bone specimens: initial experience. European Radiology, 2005, 15, 329-333.	2.3	34
68	Automated attenuation-based selection of tube voltage and tube current for coronary CT angiography: Reduction of radiation exposure versus a BMI-based strategy with an expert investigator. Journal of Cardiovascular Computed Tomography, 2013, 7, 303-310.	0.7	34
69	Principles and applications of dual source CT. Physica Medica, 2020, 79, 36-46.	0.4	34
70	Spatial resolution improvement and dose reduction potential for inner ear CT imaging using a zâ€axis deconvolution technique. Medical Physics, 2013, 40, 061904.	1.6	30
71	<title>New efficient Fourier-reconstruction method for approximate image reconstruction in spiral cone-beam CT at small cone angles</title> . , 1997, , .		28
72	Basic principles and clinical potential of photon-counting detector CT. Chinese Journal of Academic Radiology, 2020, 3, 19-34.	0.4	26

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73	High-resolution ex vivo imaging of coronary artery stents using 64-slice computed tomography—initial experience. European Radiology, 2006, 16, 1564-1569.	2.3	23
74	Coronary artery stent imaging with CT using an integrated electronics detector and iterative reconstructions: First inÂvitro experience. Journal of Cardiovascular Computed Tomography, 2013, 7, 215-222.	0.7	21
75	Flat-panel detector computed tomography for the assessment of coronary artery stents: phantom study in comparison with 16-slice spiral computed tomography. Investigative Radiology, 2005, 40, 8-13.	3.5	19
76	CT Systems. Current Radiology Reports, 2013, 1, 52-63.	0.4	18
77	Spatial domain image filtering in computed tomography: feasibility study in pulmonary embolism. European Radiology, 2003, 13, 717-723.	2.3	16
78	Evaluation of automated attenuation-based tube current adaptation for coronary calcium scoring in MDCT in a cohort of 262 patients. European Radiology, 2007, 17, 1850-1857.	2.3	16
79	Screening for coronary artery disease in respiratory patients: comparison of single- and dual-source CT in patients with a heart rate above 70Âbpm. European Radiology, 2008, 18, 2108-2119.	2.3	13
80	Spinal dual-energy computed tomography: improved visualisation of spinal tumorous growth with a noise-optimised advanced monoenergetic post-processing algorithm. Neuroradiology, 2016, 58, 1093-1102.	1.1	12
81	Multislice CT: Current Technology and Future Developments. Medical Radiology, 2009, , 3-23.	0.0	12
82	Design and evaluation of a prototype volume CT scanner. , 2005, 5745, 600.		11
83	Multi-slice CT Technology. , 2007, , 41-69.		9
84	Individualized Scan Protocols in Abdominal Computed Tomography. Investigative Radiology, 2022, 57, 353-358.	3.5	8
85	Pediatric chest computed tomography at 100 kVp with tin filtration: comparison of image quality with 70-kVp imaging at comparable radiation dose. Pediatric Radiology, 2020, 50, 188-198.	1.1	7
86	Principles of Multi-slice Cardiac CT Imaging. , 2007, , 71-126.		7
87	Multidetector-row CT of the heart. Seminars in Roentgenology, 2003, 38, 135-145.	0.2	6
88	Dynamic imaging of a model of intracranial saccular aneurysms using ultra-high-resolution flat-panel volumetric computed tomography. Journal of Neurosurgery, 2009, 111, 947-957.	0.9	6
89	Image Quality of 3rd Generation Spiral Cranial Dual-Source CT in Combination with an Advanced Model Iterative Reconstruction Technique: A Prospective Intra-Individual Comparison Study to Standard Sequential Cranial CT Using Identical Radiation Dose. PLoS ONE, 2015, 10, e0136054.	1.1	6
90	In Vitro Comparison of Second- and Third-generation Dual-source CT for Coronary Stent Visualization at Different Tube Potentials. Academic Radiology, 2016, 23, 961-968.	1.3	6

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91	Design, Technique, and Future Perspective of Multislice CT Scanners. , 2004, , 3-16.		6
92	COMPUTED TOMOGRAPHY—PATIENT DOSE AND DOSE REDUCTION TECHNOLOGIES. Health Physics, 2011, 100, 325-328.	0.3	4
93	New Approaches to Reduce Radiation While Maintaining Image Quality in Multi-Detector-Computed Tomography. Current Radiology Reports, 2015, 3, 1.	0.4	4
94	Novel reconstruction scheme for cardiac volume imaging with MSCT providing cone correction. , 2002, , .		3
95	Multi-slice CT: Current Technology and Future Developments. Medical Radiology, 2018, , 3-34.	0.0	3
96	Multidetector-Row CT Basics, Technological Evolution, and Current Technology. , 2017, , 3-33.		3
97	Dual Source CT Technology. , 2008, , 19-33.		3
98	Multi-Detector Row CT–Recent Developments, Radiation Dose and Dose Reduction Technologies. Medical Radiology, 2012, , 3-19.	0.0	2
99	Cardiac Gating. Medical Radiology, 2009, , 23-36.	0.0	2
100	Science and practice of imaging physics through 50 years of SPIE Medical Imaging conferences. Journal of Medical Imaging, 2022, 9, 012205.	0.8	2
101	Image Reconstruction for ECG-Triggered and ECG-Gated Multislice CT. , 2005, , 45-54.		1
102	Evaluation Of a New Reconstruction Technique for Dual-Energy (DECT) Lung Perfusion: Preliminary Experience In 58 Patients. Academic Radiology, 2021, , .	1.3	1
103	Technical Aspects of Dual Energy CT with Dual Source CT Systems. , 2015, , 11-32.		1
104	Multi-Slice Cumputed Tomography Technical Principles, Clinical Application and Future Perspective. Medical Radiology, 2004, , 87-115.	0.0	1
105	Image Visualization and Post-processing Techniques. , 2007, , 151-177.		1
106	Dual-Energy: The Siemens Approach. Medical Radiology, 2022, , 15-27.	0.0	1
107	Multidetector-Row CT: Technical Principles. , 2005, , 11-23.		0
108	Technical Principles and Applications of Multislice CT. , 2006, , 3-23.		0

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109	Principle and applications of dual source CT. Proceedings of SPIE, 2008, , .	0.8	0
110	Influence of cardiac motion on stent lumen visualization in third generation dual-source CT employing a pulsatile heart model. British Journal of Radiology, 2017, 90, 20160616.	1.0	0
111	Technical Principles of CT. , 2002, , 443-452.		0
112	Visualization of Large Image Data Volumes Using PACS and Advanced Postprocessing Methods. , 2004, , 35-42.		0
113	Fundamentals of multi-slice CT scanning and its application to the periphery. , 2007, , 1-17.		0
114	From Sixteen Slices to Nowadays $\hat{a} \in$ "Cardiothoracic Imaging with CT. Medical Radiology, 2009, , 3-22.	0.0	0
115	Technische Grundlagen der Herz-CT. , 2009, , 3-13.		0
116	Dual Source CT Technology. , 2010, , 11-27.		0
117	Physical Background of Multi Detector Row Computed Tomography. Medical Radiology, 2011, , 1-14.	0.0	0