

# Matthias Stefan May

## List of Publications by Year in descending order

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75  
papers

1,742  
citations

218677

26  
h-index

302126

39  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2465  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Pitch Spiral Computed Tomography. <i>Investigative Radiology</i> , 2011, 46, 116-123.	6.2	145
2	Dose Reduction in Abdominal Computed Tomography. <i>Investigative Radiology</i> , 2011, 46, 465-470.	6.2	119
3	Dual source multidetector CT-angiography before Transcatheter Aortic Valve Implantation (TAVI) using a high-pitch spiral acquisition mode. <i>European Radiology</i> , 2012, 22, 51-58.	4.5	101
4	Normalized Metal Artifact Reduction in Head and Neck Computed Tomography. <i>Investigative Radiology</i> , 2012, 47, 415-421.	6.2	66
5	Accuracy of prospectively ECG-triggered very low-dose coronary dual-source CT angiography using iterative reconstruction for the detection of coronary artery stenosis: comparison with invasive catheterization. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 1238-1245.	1.2	65
6	Mammographic density as a risk factor for breast cancer in a German case-control study. <i>European Journal of Cancer Prevention</i> , 2011, 20, 1-8.	1.3	53
7	Low-Dose Dual-Source CT Angiography With Iterative Reconstruction for Coronary Artery Stent Evaluation. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 458-465.	5.3	50
8	Imaging the Paranasal Region with a Third-Generation Dual-Source CT and the Effect of Tin Filtration on Image Quality and Radiation Dose. <i>American Journal of Neuroradiology</i> , 2015, 36, 1225-1230.	2.4	49
9	Attenuation-Based Automatic Kilovolt Selection in Abdominal Computed Tomography. <i>Investigative Radiology</i> , 2012, 47, 559-565.	6.2	48
10	Low-Dose CT of the Paranasal Sinuses: Minimizing X-Ray Exposure with Spectral Shaping. <i>European Radiology</i> , 2016, 26, 4155-4161.	4.5	48
11	Induction and repair of DNA double-strand breaks in blood lymphocytes of patients undergoing 18F-FDG PET/CT examinations. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1712-1719.	6.4	46
12	CT-based analysis of pericoronary adipose tissue density: Relation to cardiovascular risk factors and epicardial adipose tissue volume. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 52-60.	1.3	45
13	Automatic detection of lytic and blastic thoracolumbar spine metastases on computed tomography. <i>European Radiology</i> , 2013, 23, 1862-1870.	4.5	42
14	Automated Tube Voltage Selection in Thoracoabdominal Computed Tomography at High Pitch Using a Third-Generation Dual-Source Scanner. <i>Investigative Radiology</i> , 2015, 50, 352-360.	6.2	42
15	Improved Image Quality in Head and Neck CT Using a 3D Iterative Approach to Reduce Metal Artifact. <i>American Journal of Neuroradiology</i> , 2015, 36, 1988-1993.	2.4	39
16	Frequency split metal artefact reduction in pelvic computed tomography. <i>European Radiology</i> , 2013, 23, 2137-2145.	4.5	37
17	Influence of Cardiac MR Imaging on DNA Double-Strand Breaks in Human Blood Lymphocytes. <i>Radiology</i> , 2015, 277, 406-412.	7.3	37
18	Radiation dose reduction in paranasal CT by spectral shaping. <i>Neuroradiology</i> , 2017, 59, 169-176.	2.2	36

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19	Acute adverse events in cardiac MR imaging with gadolinium-based contrast agents: results from the European Society of Cardiovascular Radiology (ESCR) MRCT Registry in 72,839 patients. <i>European Radiology</i> , 2019, 29, 3686-3695.	4.5	36
20	Dual-Energy Computed Tomography Angiography of the Head and Neck With Single-Source Computed Tomography. <i>Investigative Radiology</i> , 2016, 51, 618-623.	6.2	33
21	Influence of Different Antioxidants on X-Ray Induced DNA Double-Strand Breaks (DSBs) Using $\hat{I}^3$ -H2AX Immunofluorescence Microscopy in a Preliminary Study. <i>PLoS ONE</i> , 2015, 10, e0127142.	2.5	32
22	Carotid CTA: Radiation Exposure and Image Quality with the Use of Attenuation-Based, Automated Kilovolt Selection. <i>American Journal of Neuroradiology</i> , 2014, 35, 237-241.	2.4	31
23	Comparison of dual- and single-source dual-energy CT in head and neck imaging. <i>European Radiology</i> , 2019, 29, 4207-4214.	4.5	31
24	Local Control of Perivascular Malignant Liver Lesions Using Percutaneous Irreversible Electroporation: Initial Experiences. <i>CardioVascular and Interventional Radiology</i> , 2015, 38, 152-159.	2.0	29
25	High-Pitch Thoracic CT With Simultaneous Assessment of Coronary Arteries. <i>JACC: Cardiovascular Imaging</i> , 2011, 4, 602-609.	5.3	28
26	Automated tube voltage adaptation in head and neck computed tomography between 120 and 100 kV: effects on image quality and radiation dose. <i>Neuroradiology</i> , 2014, 56, 797-803.	2.2	26
27	Effect of Compression Garments on the Development of Delayed-Onset Muscle Soreness: A Multimodal Approach Using Contrast-Enhanced Ultrasound and Acoustic Radiation Force Impulse Elastography. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 887-894.	3.5	26
28	Cardiac T2 mapping: robustness and homogeneity of standardized in-line analysis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 39.	3.3	25
29	Computed Tomography of the Head and Neck Region for Tumor Staging—Comparison of Dual-Source, Dual-Energy and Low-Kilovolt, Single-Energy Acquisitions. <i>Investigative Radiology</i> , 2017, 52, 522-528.	6.2	22
30	Quantitative T2 Mapping Shows Increased Degeneration in Adjacent Intervertebral Discs Following Kyphoplasty. <i>Cartilage</i> , 2020, 11, 152-159.	2.7	22
31	Myocardial Adaptation to High-Intensity (Interval) Training in Previously Untrained Men With a Longitudinal Cardiovascular Magnetic Resonance Imaging Study (Running Study and Heart Trial). <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	2.6	19
32	Computed Tomography Angiography of Carotid Arteries and Vertebrobasilar System. <i>Medicine (United States)</i> , 2019, 98, 18.	1.0	18
33	A Novel Pairwise Comparison-Based Method to Determine Radiation Dose Reduction Potentials of Iterative Reconstruction Algorithms, Exemplified Through Circle of Willis Computed Tomography Angiography. <i>Investigative Radiology</i> , 2016, 51, 331-339.	6.2	18
34	Stent evaluation in low-dose coronary CT angiography: Effect of different iterative reconstruction settings. <i>Journal of Cardiovascular Computed Tomography</i> , 2013, 7, 319-325.	1.3	17
35	Diagnostic Accuracy of an MRI Protocol of the Knee Accelerated Through Parallel Imaging in Correlation to Arthroscopy. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2018, 190, 265-272.	1.3	17
36	3D Dixon water-fat LGE imaging with image navigator and compressed sensing in cardiac MRI. <i>European Radiology</i> , 2021, 31, 3951-3961.	4.5	17

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37	Effect of Compression Garments on the Development of Edema and Soreness in Delayed-Onset Muscle Soreness (DOMS). <i>Journal of Sports Science and Medicine</i> , 2018, 17, 392-401.	1.6	16
38	Glucocorticoid-induced relapse of COVID-19 in a patient with sarcoidosis. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, e87-e87.	0.9	15
39	Individual Calculation of Effective Dose and Risk of Malignancy Based on Monte Carlo Simulations after Whole Body Computed Tomography. <i>Scientific Reports</i> , 2020, 10, 9475.	3.3	14
40	Preoperative assessment of the aortic arch in children younger than 1 year with congenital heart disease: utility of low-dose high-pitch dual-source computed tomography. A single-centre, retrospective analysis of 62 cases. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 45, 1060-1065.	1.4	13
41	Contrast medium application in pediatric high-pitch cardiovascular CT angiography: Manual or power injection?. <i>Journal of Cardiovascular Computed Tomography</i> , 2014, 8, 315-322.	1.3	11
42	Evaluation of ventricular septal defects using high pitch computed tomography angiography of the chest in children with complex congenital heart defects below one year of age. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 226-233.	1.3	9
43	Comparison of Readout-Segmented Echo-Planar Imaging and Single-Shot TSE DWI for Cholesteatoma Diagnostics. <i>American Journal of Neuroradiology</i> , 2021, 42, 1305-1312.	2.4	9
44	Improving the Safety of DIEP Flap Transplantation: Detailed Perforator Anatomy Study Using Preoperative CTA. <i>Journal of Personalized Medicine</i> , 2022, 12, 701.	2.5	9
45	Radiation dose considerations by intra-individual Monte Carlo simulations in dual source spiral coronary computed tomography angiography with electrocardiogram-triggered tube current modulation and adaptive pitch. <i>European Radiology</i> , 2012, 22, 569-578.	4.5	8
46	Cone Beam CT Imaging of the Paranasal Region with a Multipurpose X-ray System—Image Quality and Radiation Exposure. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5876.	2.5	8
47	Achieving high spatial and temporal resolution with perfusion MRI in the head and neck region using golden-angle radial sampling. <i>European Radiology</i> , 2021, 31, 2263-2271.	4.5	8
48	Personalized Chest Computed Tomography. <i>Investigative Radiology</i> , 2022, 57, 148-156.	6.2	8
49	Image quality, diagnostic accuracy, and potential for radiation dose reduction in thoracoabdominal CT, using Sinogram Affirmed Iterative Reconstruction (SAFIRE) technique in a longitudinal study. <i>PLoS ONE</i> , 2017, 12, e0180302.	2.5	8
50	Whole body magnetic resonance angiography and computed tomography angiography in the vascular mapping of head and neck: an intraindividual comparison. <i>Head &amp; Face Medicine</i> , 2014, 10, 16.	2.1	7
51	Feasibility of Respiratory-gated High-pitch Spiral CT:. <i>Academic Radiology</i> , 2016, 23, 406-412.	2.5	7
52	Single source split filter dual energy: Image quality and liver lesion detection in abdominal CT. <i>European Journal of Radiology</i> , 2020, 126, 108913.	2.6	5
53	Myocardial adaption to HI(R)T in previously untrained men with a randomized, longitudinal cardiac MR imaging study (Physical adaptations in Untrained on Strength and Heart trial, PUSH-trial). <i>PLoS ONE</i> , 2017, 12, e0189204.	2.5	5
54	Native cardiac T1 Mapping: Standardized inline analysis of long and short axis at three identical 1.5 Tesla MRI scanners. <i>European Journal of Radiology</i> , 2018, 107, 203-208.	2.6	4

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55	Complete Free-breathing Adenosine Stress Cardiac MRI Using Compressed Sensing and Motion Correction: Comparison of Functional Parameters, Perfusion, and Late Enhancement with the Standard Breath-holding Examination. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e180017.	2.5	4
56	Cardiac T2 star mapping: standardized inline analysis of long and short axis at three identical 1.5T MRI scanners. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 695-702.	1.5	4
57	Dual-source computed tomography of the lung with spectral shaping and advanced iterative reconstruction: potential for maximum radiation dose reduction. <i>Pediatric Radiology</i> , 2020, 50, 1240-1248.	2.0	4
58	Which concentration to choose in dual flow cardiac CT?. <i>European Journal of Radiology</i> , 2012, 81, e461-e466.	2.6	3
59	Extent of simultaneous radiation dose and iodine reduction at stable image quality in computed tomography of the chest. <i>Medicine (United States)</i> , 2018, 97, e0388.	1.0	3
60	Carotid CTA at the Lowest Tube Voltage (70 kV) in Comparison with Automated Tube Voltage Adaption. <i>American Journal of Neuroradiology</i> , 2019, 40, 1374-1382.	2.4	3
61	Mobile Workflow in Computed Tomography of the Chest. <i>Journal of Medical Systems</i> , 2019, 43, 14.	3.6	3
62	Pilot study using intraoperative fluorescence angiography during arteriovenous hemodialysis access surgery. <i>Journal of Vascular Access</i> , 2019, 20, 175-183.	0.9	3
63	Organ-specific context-sensitive CT image reconstruction and display. , 2018, , .		3
64	The third dimension in perforator mapping—Comparison of Cinematic Rendering and maximum intensity projection in abdominal-based autologous breast reconstruction. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2022, 75, 536-543.	1.0	3
65	Dual-Energy Lung Perfusion in Portal Venous Phase CT—A Comparison with the Pulmonary Arterial Phase. <i>Diagnostics</i> , 2021, 11, 1989.	2.6	3
66	Influence of risk-organ—based tube current modulation on CT-induced DNA double-strand breaks in a biological phantom model. <i>Journal of Radiation Research</i> , 2018, 59, 692-699.	1.6	2
67	Effect of long term CPAP therapy on cardiac parameters assessed with cardiac MRI. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 613-621.	1.5	2
68	Potential for Radiation Dose Reduction in Dual-Source Computed Tomography of the Lung in the Pediatric and Adolescent Population Compared to Digital Radiography. <i>Diagnostics</i> , 2021, 11, 270.	2.6	2
69	Evaluation of CT-Guided Ultra-Low-Dose Protocol for Injection Guidance in Preparation of MR-Arthrography of the Shoulder and Hip Joints in Comparison to Conventional and Low-Dose Protocols. <i>Diagnostics</i> , 2021, 11, 1835.	2.6	2
70	Determining Microvascular Obstruction and Infarct Size with Steady-State Free Precession Imaging Cardiac MRI. <i>PLoS ONE</i> , 2015, 10, e0119788.	2.5	2
71	Image quality comparison of single-energy and dual-energy computed tomography for head and neck patients: a prospective randomized study. <i>European Radiology</i> , 2022, 32, 7700-7709.	4.5	2
72	Cutting Staff Radiation Exposure and Improving Freedom of Motion during CT Interventions: Comparison of a Novel Workflow Utilizing a Radiation Protection Cabin versus Two Conventional Workflows. <i>Diagnostics</i> , 2021, 11, 1099.	2.6	1

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73	Prognostic Value of CTA-Derived Left Ventricular Mass in Neonates with Congenital Heart Disease. <i>Diagnostics</i> , 2021, 11, 1215.	2.6	1
74	Dynamic CT angiography for therapy evaluation after transarterial chemoembolization of hepatocellular carcinoma. <i>Acta Radiologica</i> , 2020, 61, 148-155.	1.1	0
75	Cor Triatriatum Sinistrum Combined with Changes in Atrial Septum and Right Atrium in a 60-Year-Old Woman. <i>Medicina (Lithuania)</i> , 2021, 57, 777.	2.0	0