Joel Greffier

List of Publications by Year
in descending order

63	1,549	304743	345221
papers	citations	22 h-index	36 g-index

65	65	65	1054
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Image quality and dose reduction opportunity of deep learning image reconstruction algorithm for CT: a phantom study. European Radiology, 2020, 30, 3951-3959.	4.5	196
2	Coronary CT Angiography with Photon-counting CT: First-In-Human Results. Radiology, 2022, 303, 303-313.	7.3	122
3	CT iterative reconstruction algorithms: a task-based image quality assessment. European Radiology, 2020, 30, 487-500.	4.5	87
4	Dose reduction with iterative reconstruction: Optimization of CT protocols in clinical practice. Diagnostic and Interventional Imaging, 2015, 96, 477-486.	3.2	74
5	Patient dose in interventional radiology: a multicentre study of the most frequent procedures in France. European Radiology, 2017, 27, 4281-4290.	4.5	59
6	Low and ultra-low dose radiation in CT: Opportunities and limitations. Diagnostic and Interventional Imaging, 2019, 100, 63-64.	3.2	46
7	Which dose for what image? Iterative reconstruction for CT scan. Diagnostic and Interventional Imaging, 2013, 94, 1117-1121.	3.2	42
8	Value of ultra-low-dose chest CT with iterative reconstruction for selected emergency room patients with acute dyspnea. European Journal of Radiology, 2016, 85, 1637-1644.	2.6	36
9	Coronary calcium scoring potential of large field-of-view spectral photon-counting CT: a phantom study. European Radiology, 2022, 32, 152-162.	4.5	36
10	Comparison of two deep learning image reconstruction algorithms in chest CT images: A task-based image quality assessment on phantom data. Diagnostic and Interventional Imaging, 2022, 103, 21-30.	3.2	36
11	Ultra-low-dose chest CT with iterative reconstruction does not alter anatomical image quality. Diagnostic and Interventional Imaging, 2016, 97, 1131-1140.	3.2	33
12	Effect of tin filter-based spectral shaping CT on image quality and radiation dose for routine use on ultralow-dose CT protocols: A phantom study. Diagnostic and Interventional Imaging, 2020, 101, 373-381.	3.2	32
13	Optimization of radiation dose for CT detection of lytic and sclerotic bone lesions: a phantom study. European Radiology, 2020, 30, 1075-1078.	4.5	30
14	Assessment of peak skin dose in interventional cardiology: A comparison between Gafchromic film and dosimetric software em.dose. Physica Medica, 2017, 38, 16-22.	0.7	29
15	Comparison of two versions of a deep learning image reconstruction algorithm on CT image quality and dose reduction: A phantom study. Medical Physics, 2021, 48, 5743-5755.	3.0	29
16	Imaging of tumors and tumor-like lesions of the knee. Diagnostic and Interventional Imaging, 2016, 97, 767-777.	3.2	28
17	Dose reduction with iterative reconstruction in multi-detector CT: What is the impact on deformation of circular structures in phantom study?. Diagnostic and Interventional Imaging, 2016, 97, 187-196.	3.2	28
18	Radiation Exposure During Transarterial Chemoembolization: Angio-CT Versus Cone-Beam CT. CardioVascular and Interventional Radiology, 2019, 42, 1609-1618.	2.0	28

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19	CT dose reduction using Automatic Exposure Control and iterative reconstruction: A chest paediatric phantoms study. Physica Medica, 2016, 32, 582-589.	0.7	26
20	Comparison of image quality between spectral photon-counting CT and dual-layer CT for the evaluation of lung nodules: a phantom study. European Radiology, 2022, 32, 524-532.	4.5	26
21	Performance of Spectral Photon-Counting Coronary CT Angiography and Comparison with Energy-Integrating-Detector CT: Objective Assessment with Model Observer. Diagnostics, 2021, 11, 2376.	2.6	25
22	Performance of four dual-energy CT platforms for abdominal imaging: a task-based image quality assessment based on phantom data. European Radiology, 2021, 31, 5324-5334.	4.5	24
23	Impact of dose reduction and the use of an advanced model-based iterative reconstruction algorithm on spectral performance of a dual-source CT system: A task-based image quality assessment. Diagnostic and Interventional Imaging, 2021, 102, 405-412.	3.2	23
24	Impact of iterative reconstructions on image quality and detectability of focal liver lesions in low-energy monochromatic images. Physica Medica, 2020, 77, 36-42.	0.7	22
25	Impact of an artificial intelligence deepâ€learning reconstruction algorithm for CT on image quality and potential dose reduction: A phantom study. Medical Physics, 2022, 49, 5052-5063.	3.0	21
26	Patient dose reference levels in surgery: a multicenter study. European Radiology, 2019, 29, 674-681.	4.5	20
27	Comparison of noise-magnitude and noise-texture across two generations of iterative reconstruction algorithms from three manufacturers. Diagnostic and Interventional Imaging, 2019, 100, 401-410.	3.2	20
28	CT dose optimization for the detection of pulmonary arteriovenous malformation (PAVM): A phantom study. Diagnostic and Interventional Imaging, 2020, 101, 289-297.	3.2	19
29	Ultra-low-dose chest CT performance for the detection of viral pneumonia patterns during the COVID-19 outbreak period: a monocentric experience. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3190-3199.	2.0	19
30	Detection and characterization of focal liver lesions with ultra-low dose computed tomography in neoplastic patients. Diagnostic and Interventional Imaging, 2018, 99, 311-320.	3.2	18
31	Phantom taskâ€based image quality assessment of three generations of rapid kVâ€switching dualâ€energy CT systems on virtual monoenergetic images. Medical Physics, 2022, 49, 2233-2244.	3.0	18
32	Interventional spine procedures under CT guidance: How to reduce patient radiation dose without compromising the successful outcome of the procedure?. Physica Medica, 2017, 35, 88-96.	0.7	17
33	Ultra-low-dose CT versus radiographs for minor spine and pelvis trauma: a Bayesian analysis of accuracy. European Radiology, 2021, 31, 2621-2633.	4.5	17
34	Experimental evaluation of a radiation dose management system-integrated 3D skin dose map by comparison with XR-RV3 GafchromicÂ® films. Physica Medica, 2019, 66, 77-87.	0.7	16
35	Effect of a new deep learning image reconstruction algorithm for abdominal computed tomography imaging on image quality and dose reduction compared with two iterative reconstruction algorithms: a phantom study. Quantitative Imaging in Medicine and Surgery, 2022, 12, 229-243.	2.0	16
36	Diagnostic performance of ultra-low dose versus standard dose CT for non-traumatic abdominal emergencies. Diagnostic and Interventional Imaging, 2021, 102, 379-387.	3.2	16

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37	Comparison of virtual monoenergetic imaging between a rapid kilovoltage switching dual-energy computed tomography with deep-learning and four dual-energy CTs with iterative reconstruction. Quantitative Imaging in Medicine and Surgery, 2022, 12, 1149-1162.	2.0	16
38	Early Results of Unilateral Prostatic Artery Embolization as a Focal Therapy in Patients with Prostate Cancer under Active Surveillance: Cancer Prostate Embolisation, a Pilot Study. Journal of Vascular and Interventional Radiology, 2021, 32, 247-255.	0.5	15
39	Diagnostic performance of a low dose triple rule-out CT angiography using SAFIRE in emergency department. Diagnostic and Interventional Imaging, 2017, 98, 881-891.	3.2	14
40	Minor Blunt Thoracic Trauma in the Emergency Department: Sensitivity and Specificity of Chest Ultralow-Dose Computed Tomography Compared With Conventional Radiography. Annals of Emergency Medicine, 2019, 73, 665-670.	0.6	14
41	Optimization of image quality and accuracy of low iodine concentration quantification as function of dose level and reconstruction algorithm for abdominal imaging using dual-source CT: A phantom study. Diagnostic and Interventional Imaging, 2022, 103, 31-40.	3.2	12
42	iQMetrix-CT: New software for task-based image quality assessment of phantom CT images. Diagnostic and Interventional Imaging, 2022, 103, 555-562.	3.2	12
43	Spectral photon-counting CT system: Toward improved image quality performance in conventional and spectral CT imaging. Diagnostic and Interventional Imaging, 2021, 102, 271-272.	3.2	11
44	Impact of four kVp combinations available in a dualâ€source CT on the spectral performance of abdominal imaging: A taskâ€based image quality assessment on phantom data. Journal of Applied Clinical Medical Physics, 2021, 22, 243-254.	1.9	11
45	Assessment of patient's peak skin dose during abdominopelvic embolization using radiochromic (Gafchromic) films. Diagnostic and Interventional Imaging, 2018, 99, 321-329.	3.2	10
46	Noise assessment across two generations of iterative reconstruction algorithms of three manufacturers using bone reconstruction kernel. Diagnostic and Interventional Imaging, 2019, 100, 763-770.	3.2	10
47	Assessment of Patient's Peak Skin Dose Using Gafchromic Films During Interventional Cardiology Procedures: Routine Experience Feedback. Radiation Protection Dosimetry, 2017, 174, 395-405.	0.8	9
48	Influence of iterative reconstruction and dose levels on metallic artifact reduction: A phantom study within four CT systems. Diagnostic and Interventional Imaging, 2019, 100, 269-277.	3.2	9
49	Optimization of image quality and accuracy of low iodine concentration quantification as function of kVp pairs for abdominal imaging using dual-source CT: A phantom study. Physica Medica, 2021, 88, 285-292.	0.7	9
50	Impact of the calibration conditions of XR-RV3 films on peak skin dose measurements in interventional radiology. Radiation Protection Dosimetry, 2017, 174, 207-215.	0.8	8
51	Impact of ultra-low dose CT acquisition on semi-automated RECIST tool in the evaluation of malignant focal liver lesions. Diagnostic and Interventional Imaging, 2020, 101, 473-479.	3.2	8
52	Clinical evaluation of a dose management system-integrated 3D skin dose map by comparison with radiochromic films. European Radiology, 2020, 30, 5071-5081.	4.5	8
53	EFFECT OF PATIENT SIZE, ANATOMICAL LOCATION AND MODULATION STRENGTH ON DOSE DELIVERED AND IMAGE-QUALITY ON CT EXAMINATION. Radiation Protection Dosimetry, 2017, 177, 373-381.	0.8	7
54	National dose reference levels in computed tomographyâ€“guided interventional proceduresâ€”a proposal. European Radiology, 2020, 30, 5690-5701.	4.5	7

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55	Comparison of acquisition and iterative reconstruction parameters in abdominal computed tomography-guided procedures: a phantom study. Quantitative Imaging in Medicine and Surgery, 2022, 12, 281-291.	2.0	6
56	Impact of additional mattresses in emergency CT on the automated patient centering proposed by a 3D camera: a phantom study. Scientific Reports, 2021, 11, 13191.	3.3	4
57	Retrospective analysis of dose delivered to the uterus during CT examination in pregnant women. Diagnostic and Interventional Imaging, 2022, 103, 331-337.	3.2	4
58	Microwave Ablation of Liver, Kidney and Lung Lesions: One-Month Response and Manufacturerâ€™s Chartsâ€™ Reliability in Clinical Practice. Sensors, 2022, 22, 3973.	3.8	4
59	Decreased operator X-ray exposure by optimized fluoroscopy during radiofrequency ablation of common atrial flutter. Diagnostic and Interventional Imaging, 2018, 99, 625-632.	3.2	2
60	Skin dose assessment in interventional radiology. Physica Medica, 2021, 81, 170-172.	0.7	2
61	A retrospective comparison of organ dose and effective dose in percutaneous vertebroplasty performed under CT guidance or using a fixed C-arm with a flat-panel detector. Physica Medica, 2021, 88, 235-241.	0.7	2
62	Comparison of peak skin dose and dose map obtained with real-time software and radiochromic films in patients undergoing abdominopelvic embolization. Diagnostic and Interventional Imaging, 2022, 103, 338-344.	3.2	1
63	A national dose analysis of guided tumor destruction: influence of sex, age, localization and destruction technique used. Quantitative Imaging in Medicine and Surgery, 2021, 12, 0-0.	2.0	0