Robbert W Van Hamersvelt

List of Publications by Year
in descending order

38 papers	1,361 citations	566801 15 h-index	454577 30 g-index
38 all docs	38 docs citations	38 times ranked	1808 citing authors

#	Article	IF	Citations
1	Statistical shape model of the talus bone morphology: A comparison between impinged and nonimpinged ankles. Journal of Orthopaedic Research, 2023, 41, 183-195.	1.2	7
2	Coronary Artery Calcium Scoring. Investigative Radiology, 2022, 57, 13-22.	3.5	10
3	Coronary calcium scoring potential of large field-of-view spectral photon-counting CT: a phantom study. European Radiology, 2022, 32, 152-162.	2.3	36
4	Diagnostic performance and clinical implications for enhancing a hybrid quantitative flow ratioâ€“FFR revascularization decision-making strategy. Scientific Reports, 2021, 11, 6425.	1.6	2
5	Quantitative analysis of metal artifact reduction in total hip arthroplasty using virtual monochromatic imaging and orthopedic metal artifact reduction, a phantom study. Insights Into Imaging, 2021, 12, 171.	1.6	9
6	Motion-corrected coronary calcium scores by a convolutional neural network: a robotic simulating study. European Radiology, 2020, 30, 1285-1294.	2.3	17
7	Deep Learning Analysis of Coronary Arteries in Cardiac CT Angiography for Detection of Patients Requiring Invasive Coronary Angiography. IEEE Transactions on Medical Imaging, 2020, 39, 1545-1557.	5.4	43
8	Deep learning from dualâ€energy information for wholeâ€heart segmentation in dualâ€energy and singleâ€energy nonâ€contrastâ€enhanced cardiac CT. Medical Physics, 2020, 47, 5048-5060.	1.6	29
9	Suboptimal Quality and High Risk of Bias in Diagnostic Test Accuracy Studies at Chest Radiography and CT in the Acute Setting of the COVID-19 Pandemic: A Systematic Review. Radiology: Cardiothoracic Imaging, 2020, 2, e200342.	0.9	12
10	Feasibility of fresh frozen human cadavers as a research and training model for endovascular image guided interventions. PLoS ONE, 2020, 15, e0242596.	1.1	7
11	Title is missing!. , 2020, 15, e0242596.		0
12	Title is missing!. , 2020, 15, e0242596.		0
13	Title is missing!. , 2020, 15, e0242596.		0
14	Title is missing!. , 2020, 15, e0242596.		0
15	Title is missing!. , 2020, 15, e0242596.		0
16	Title is missing!. , 2020, 15, e0242596.		0
17	Diagnostic Performance of On-Site Coronary CT Angiographyâ€derived Fractional Flow Reserve Based on Patient-specific Lumped Parameter Models. Radiology: Cardiothoracic Imaging, 2019, 1, e190036.	0.9	13
18	Application of speCtraL computed tomogrAphy to impRove specIficity of cardiac compuTed tomographY (CLARITY study): rationale and design. BMJ Open, 2019, 9, e025793.	0.8	5

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19	A Recurrent CNN for Automatic Detection and Classification of Coronary Artery Plaque and Stenosis in Coronary CT Angiography. IEEE Transactions on Medical Imaging, 2019, 38, 1588-1598.	5.4	172
20	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. European Radiology, 2019, 29, 2350-2359.	2.3	73
21	Coronary artery centerline extraction in cardiac CT angiography using a CNN-based orientation classifier. Medical Image Analysis, 2019, 51, 46-60.	7.0	129
22	Improving myocardium segmentation in cardiac CT angiography using spectral information. , 2019, , .		8
23	Contrast agent concentration optimization in CTA using low tube voltage and dual-energy CT in multiple vendors: a phantom study. International Journal of Cardiovascular Imaging, 2018, 34, 1265-1275.	0.7	42
24	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. Medical Image Analysis, 2018, 44, 72-85.	7.0	154
25	Coronary calcium scoring with partial volume correction in anthropomorphic thorax phantom and screening chest CT images. PLoS ONE, 2018, 13, e0209318.	1.1	23
26	Anterior longitudinal ligament in diffuse idiopathic skeletal hyperostosis: Ossified or displaced?. Journal of Orthopaedic Research, 2018, 36, 2491-2496.	1.2	7
27	Feasibility and accuracy of dual-layer spectral detector computed tomography for quantification of gadolinium: a phantom study. European Radiology, 2017, 27, 3677-3686.	2.3	21
28	Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study. European Radiology, 2017, 27, 4351-4359.	2.3	60
29	Aortic Valve and Thoracic Aortic Calcification Measurements. Journal of Computer Assisted Tomography, 2017, 41, 148-155.	0.5	3
30	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
31	The Effects of Iodine Attenuation on Pulmonary Nodule Volumetry using Novel Dual-Layer Computed Tomography Reconstructions. European Radiology, 2017, 27, 5244-5251.	2.3	11
32	Dual energy CT to reveal pseudo leakage of frozen elephant trunk. Journal of Cardiovascular Computed Tomography, 2017, 11, 240-241.	0.7	1
33	Imaging of pediatric great vessel stents: Computed tomography or magnetic resonance imaging?. PLoS ONE, 2017, 12, e0171138.	1.1	8
34	Automatic segmentation of the left ventricle in cardiac CT angiography using convolutional neural networks. , 2016, , .		32
35	Automatic coronary artery calcium scoring in cardiac CT angiography using paired convolutional neural networks. Medical Image Analysis, 2016, 34, 123-136.	7.0	228
36	Pulmonary Nodule Volumetry at Different Low Computed Tomography Radiation Dose Levels With Hybrid and Model-Based Iterative Reconstruction. Journal of Computer Assisted Tomography, 2016, 40, 578-583.	0.5	10

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37	Effect of radiation dose reduction and iterative reconstruction on computer-aided detection of pulmonary nodules: Intra-individual comparison. European Journal of Radiology, 2016, 85, 346-351.	1.2	21
38	Cardiac valve calcifications on low-dose unenhanced ungated chest computed tomography: inter-observer and inter-examination reliability, agreement and variability. European Radiology, 2014, 24, 1557-1564.	2.3	18