

# Robbert W Van Hamersvelt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5307547/publications.pdf>

Version: 2024-02-01

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	Automatic coronary artery calcium scoring in cardiac CT angiography using paired convolutional neural networks. <i>Medical Image Analysis</i> , 2016, 34, 123-136.	7.0	228
2	A Recurrent CNN for Automatic Detection and Classification of Coronary Artery Plaque and Stenosis in Coronary CT Angiography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1588-1598.	5.4	172
3	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. <i>Medical Image Analysis</i> , 2018, 44, 72-85.	7.0	154
4	Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT. <i>European Radiology</i> , 2017, 27, 3904-3912.	2.3	150
5	Coronary artery centerline extraction in cardiac CT angiography using a CNN-based orientation classifier. <i>Medical Image Analysis</i> , 2019, 51, 46-60.	7.0	129
6	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. <i>European Radiology</i> , 2019, 29, 2350-2359.	2.3	73
7	Accuracy of bone mineral density quantification using dual-layer spectral detector CT: a phantom study. <i>European Radiology</i> , 2017, 27, 4351-4359.	2.3	60
8	Deep Learning Analysis of Coronary Arteries in Cardiac CT Angiography for Detection of Patients Requiring Invasive Coronary Angiography. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1545-1557.	5.4	43
9	Contrast agent concentration optimization in CTA using low tube voltage and dual-energy CT in multiple vendors: a phantom study. <i>International Journal of Cardiovascular Imaging</i> , 2018, 34, 1265-1275.	0.7	42
10	Coronary calcium scoring potential of large field-of-view spectral photon-counting CT: a phantom study. <i>European Radiology</i> , 2022, 32, 152-162.	2.3	36
11	Automatic segmentation of the left ventricle in cardiac CT angiography using convolutional neural networks. , 2016, , .		32
12	Deep learning from dual-energy information for whole-heart segmentation in dual-energy and single-energy non-contrast-enhanced cardiac CT. <i>Medical Physics</i> , 2020, 47, 5048-5060.	1.6	29
13	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
14	Effect of radiation dose reduction and iterative reconstruction on computer-aided detection of pulmonary nodules: Intra-individual comparison. <i>European Journal of Radiology</i> , 2016, 85, 346-351.	1.2	21
15	Feasibility and accuracy of dual-layer spectral detector computed tomography for quantification of gadolinium: a phantom study. <i>European Radiology</i> , 2017, 27, 3677-3686.	2.3	21
16	Cardiac valve calcifications on low-dose unenhanced ungated chest computed tomography: inter-observer and inter-examination reliability, agreement and variability. <i>European Radiology</i> , 2014, 24, 1557-1564.	2.3	18
17	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
18	Diagnostic Performance of On-Site Coronary CT Angiography-derived Fractional Flow Reserve Based on Patient-specific Lumped Parameter Models. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190036.	0.9	13

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19	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. <i>Radiology: Cardiothoracic Imaging</i> , 2020, 2, e200342.	0.9	12
20	The Effects of Iodine Attenuation on Pulmonary Nodule Volumetry using Novel Dual-Layer Computed Tomography Reconstructions. <i>European Radiology</i> , 2017, 27, 5244-5251.	2.3	11
21	Pulmonary Nodule Volumetry at Different Low Computed Tomography Radiation Dose Levels With Hybrid and Model-Based Iterative Reconstruction. <i>Journal of Computer Assisted Tomography</i> , 2016, 40, 578-583.	0.5	10
22	Coronary Artery Calcium Scoring. <i>Investigative Radiology</i> , 2022, 57, 13-22.	3.5	10
23	Quantitative analysis of metal artifact reduction in total hip arthroplasty using virtual monochromatic imaging and orthopedic metal artifact reduction, a phantom study. <i>Insights Into Imaging</i> , 2021, 12, 171.	1.6	9
24	Improving myocardium segmentation in cardiac CT angiography using spectral information. , 2019, , .		8
25	Imaging of pediatric great vessel stents: Computed tomography or magnetic resonance imaging?. <i>PLoS ONE</i> , 2017, 12, e0171138.	1.1	8
26	Anterior longitudinal ligament in diffuse idiopathic skeletal hyperostosis: Ossified or displaced?. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2491-2496.	1.2	7
27	Feasibility of fresh frozen human cadavers as a research and training model for endovascular image guided interventions. <i>PLoS ONE</i> , 2020, 15, e0242596.	1.1	7
28	Statistical shape model of the talus bone morphology: A comparison between impinged and nonimpinged ankles. <i>Journal of Orthopaedic Research</i> , 2023, 41, 183-195.	1.2	7
29	Application of speCtraL computed tomogrAphy to impRove specificity of cardiac compuTed tomographY (CLARITY study): rationale and design. <i>BMJ Open</i> , 2019, 9, e025793.	0.8	5
30	Aortic Valve and Thoracic Aortic Calcification Measurements. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 148-155.	0.5	3
31	Diagnostic performance and clinical implications for enhancing a hybrid quantitative flow ratioâ€œFFR revascularization decision-making strategy. <i>Scientific Reports</i> , 2021, 11, 6425.	1.6	2
32	Dual energy CT to reveal pseudo leakage of frozen elephant trunk. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 240-241.	0.7	1
33	Title is missing!. , 2020, 15, e0242596.		0
34	Title is missing!. , 2020, 15, e0242596.		0
35	Title is missing!. , 2020, 15, e0242596.		0
36	Title is missing!. , 2020, 15, e0242596.		0

#	ARTICLE	IF	CITATIONS
37	Title is missing!. , 2020, 15, e0242596.		0
38	Title is missing!. , 2020, 15, e0242596.		0