

Ricardo P J Budde

List of Publications by Year in descending order

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97
papers

2,270
citations

304743

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h-index

243625

44
g-index

99
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99
docs citations

99
times ranked

2759
citing authors

#	ARTICLE	IF	CITATIONS
1	Iterative reconstruction techniques for computed tomography Part 1: Technical principles. European Radiology, 2013, 23, 1623-1631.	4.5	335
2	Iterative reconstruction techniques for computed tomography part 2: initial results in dose reduction and image quality. European Radiology, 2013, 23, 1632-1642.	4.5	232
3	CT and MR imaging prior to transcatheter aortic valve implantation: standardisation of scanning protocols, measurements and reporting—a consensus document by the European Society of Cardiovascular Radiology (ESCR). European Radiology, 2020, 30, 2627-2650.	4.5	123
4	Aortic root dimension changes during systole and diastole: evaluation with ECG-gated multidetector row computed tomography. International Journal of Cardiovascular Imaging, 2011, 27, 1195-1204.	1.5	90
5	Comprehensive Cardiac CT With Myocardial Perfusion Imaging Versus Functional Testing in Suspected Coronary Artery Disease. JACC: Cardiovascular Imaging, 2018, 11, 1625-1636.	5.3	90
6	Are novel non-invasive imaging techniques needed in patients with suspected prosthetic heart valve endocarditis? A systematic review and meta-analysis. European Radiology, 2015, 25, 2125-2133.	4.5	81
7	Cardiac computed tomography angiography results in diagnostic and therapeutic change in prosthetic heart valve endocarditis. International Journal of Cardiovascular Imaging, 2014, 30, 377-387.	1.5	72
8	Automated 3D Analysis of Pre-Procedural MDCT to Predict Annulus Plane Angulation and C-Arm Positioning. JACC: Cardiovascular Imaging, 2013, 6, 238-248.	5.3	57
9	Confounders in FDG-PET/CT Imaging of Suspected Prosthetic Valve Endocarditis. JACC: Cardiovascular Imaging, 2016, 9, 1462-1465.	5.3	56
10	¹⁸ F-fluorodeoxyglucose positron emission/computed tomography and computed tomography angiography in prosthetic heart valve endocarditis: from guidelines to clinical practice. European Heart Journal, 2018, 39, 3739-3749.	2.2	49
11	Accuracy of automated patient positioning in CT using a 3D camera for body contour detection. European Radiology, 2019, 29, 2079-2088.	4.5	47
12	Automated 3D segmentation and diameter measurement of the thoracic aorta on non-contrast enhanced CT. European Radiology, 2019, 29, 4613-4623.	4.5	45
13	Inter-observer and inter-examination variability of manual vertebral bone attenuation measurements on computed tomography. European Radiology, 2016, 26, 3046-3053.	4.5	43
14	Dose reduction with iterative reconstruction for coronary CT angiography: a systematic review and meta-analysis. British Journal of Radiology, 2016, 89, 20150068.	2.2	43
15	Cardiovascular imaging in pediatric patients using dual source CT. Journal of Cardiovascular Computed Tomography, 2016, 10, 13-21.	1.3	42
16	Added value of ¹⁸ F-FDG-PET/CT and cardiac CTA in suspected transcatheter aortic valve endocarditis. Journal of Nuclear Cardiology, 2021, 28, 2072-2082.	2.1	37
17	Best Practices for Imaging Cardiac Device-Related Infections and Endocarditis. JACC: Cardiovascular Imaging, 2022, 15, 891-911.	5.3	33
18	Intermodality variation of aortic dimensions: How, where and when to measure the ascending aorta. International Journal of Cardiology, 2019, 276, 230-235.	1.7	31

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19	Technological developments of X-ray computed tomography over half a century: User's influence on protocol optimization. <i>European Journal of Radiology</i> , 2020, 131, 109261.	2.6	31
20	Improvement of late gadolinium enhancement image quality using a deep learning-based reconstruction algorithm and its influence on myocardial scar quantification. <i>European Radiology</i> , 2021, 31, 3846-3855.	4.5	31
21	Recognition, assessment and management of the mechanical complications of acute myocardial infarction. <i>Heart</i> , 2018, 104, 1216-1223.	2.9	30
22	Role of Cardiac CT in Infective Endocarditis: Current Evidence, Opportunities, and Challenges. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200378.	2.5	30
23	Emphysema quantification using chest CT: influence of radiation dose reduction and reconstruction technique. <i>European Radiology Experimental</i> , 2018, 2, 30.	3.4	29
24	Nephron mass determines the excretion rate of urinary extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12181.	12.2	25
25	Standardized uptake values in FDG PET/CT for prosthetic heart valve endocarditis: a call for standardization. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 2084-2091.	2.1	22
26	Sex-specific distributions and determinants of thoracic aortic diameters in the elderly. <i>Heart</i> , 2020, 106, 133-139.	2.9	22
27	Dose Reduction in Coronary Artery Calcium Scoring Using Mono-Energetic Images from Reduced Tube Voltage Dual-Source Photon-Counting CT Data: A Dynamic Phantom Study. <i>Diagnostics</i> , 2021, 11, 2192.	2.6	22
28	Advanced CT acquisition protocol with a third-generation dual-source CT scanner and iterative reconstruction technique for comprehensive prosthetic heart valve assessment. <i>European Radiology</i> , 2018, 28, 2159-2168.	4.5	21
29	Automated patient positioning in CT using a 3D camera for body contour detection: accuracy in pediatric patients. <i>European Radiology</i> , 2021, 31, 131-138.	4.5	21
30	Effect of computed tomography before cardiac surgery on surgical strategy, mortality and stroke. <i>European Journal of Radiology</i> , 2016, 85, 744-750.	2.6	20
31	Iodixanol versus Iopromide at Coronary CT Angiography: Lumen Opacification and Effect on Heart Rhythm—the Randomized IsoCOR Trial. <i>Radiology</i> , 2018, 286, 71-80.	7.3	19
32	Frequency and Significance of Coronary Artery Disease and Myocardial Bridging in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2020, 125, 1404-1412.	1.6	19
33	Normal imaging findings after aortic valve implantation on 18F-Fluorodeoxyglucose positron emission tomography with computed tomography. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 2258-2268.	2.1	19
34	Coronary artery calcification in middle-aged women with premature ovarian insufficiency. <i>Clinical Endocrinology</i> , 2019, 91, 314-322.	2.4	18
35	Comparison of the Diagnostic Performance of Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve in Patients With Versus Without Diabetes Mellitus (from the MACHINE) Tj ETQq1 1 0.784314 rgBT / Q8erlock	1.4	10
36	Radiation dose reduction for CT assessment of urolithiasis using iterative reconstruction: A prospective intra-individual study. <i>European Radiology</i> , 2018, 28, 143-150.	4.5	17

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37	Dose reduction for CT coronary calcium scoring with a calcium-aware image reconstruction technique: a phantom study. <i>European Radiology</i> , 2020, 30, 3346-3355.	4.5	16
38	Remote multidisciplinary heart team meetings in immersive virtual reality: a first experience during the COVID-19 pandemic. <i>BMJ Innovations</i> , 2021, 7, 311-315.	1.7	16
39	Clozapine-induced myocarditis. <i>Schizophrenia Research</i> , 2016, 174, 161-164.	2.0	15
40	Impact of machine-learning CT-derived fractional flow reserve for the diagnosis and management of coronary artery disease in the randomized CRESCENT trials. <i>European Radiology</i> , 2020, 30, 3692-3701.	4.5	15
41	Artificial Intelligence and Transcatheter Interventions for Structural Heart Disease: A glance at the (near) future. <i>Trends in Cardiovascular Medicine</i> , 2022, 32, 153-159.	4.9	15
42	Wall shear stress angle is associated with aortic growth in bicuspid aortic valve patients. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1680-1689.	1.2	15
43	Ultra low-dose chest ct with iterative reconstructions as an alternative to conventional chest x-ray prior to heart surgery (CRICKET study): Rationale and design of a multicenter randomized trial. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 242-245.	1.3	14
44	Impact of Interventricular membranous septum length on pacemaker need with different Transcatheter aortic valve implantation systems. <i>International Journal of Cardiology</i> , 2021, 333, 152-158.	1.7	13
45	Thoracic Aortic Diameter and Cardiovascular Events and Mortality among Women and Men. <i>Radiology</i> , 2022, 304, 208-215.	7.3	13
46	Quantification of aortic annulus in computed tomography angiography: Validation of a fully automatic methodology. <i>European Journal of Radiology</i> , 2017, 93, 1-8.	2.6	12
47	Frequency of abnormal findings on routine chest radiography before cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 2035-2040.	0.8	12
48	Prognostic Value of Subclinical Coronary Artery Disease in Atrial Fibrillation Patients Identified by Coronary Computed Tomography Angiography. <i>American Journal of Cardiology</i> , 2020, 126, 16-22.	1.6	12
49	Multidetector-row computed tomography for prosthetic heart valve dysfunction: is concomitant non-invasive coronary angiography possible before redo-surgery?. <i>European Radiology</i> , 2015, 25, 1623-1630.	4.5	10
50	The clinical impact of phase offset errors and different correction methods in cardiovascular magnetic resonance phase contrast imaging: a multi-scanner study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 68.	3.3	10
51	Acute Pump Thrombosis in the Early Postoperative Period After HeartMate 3 Implantation. <i>ASAIO Journal</i> , 2019, 65, e72-e74.	1.6	9
52	Clinical implementation of coronary computed tomography angiography for routine detection of cardiac allograft vasculopathy in heart transplant patients. <i>Transplant International</i> , 2021, 34, 1886-1894.	1.6	9
53	Computed tomography image quality of aortic stents in patients with aortic coarctation: a multicentre evaluation. <i>European Radiology Experimental</i> , 2018, 2, 17.	3.4	7
54	Coronary anatomy in Turner syndrome versus patients with isolated bicuspid aortic valves. <i>Heart</i> , 2019, 105, 701-707.	2.9	7

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55	Intimal aortic atherosclerosis in cardiac surgery: surgical strategies to prevent embolic stroke. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 60, 1259-1267.	1.4	7
56	Preoperative Chest Computed Tomography Screening for Coronavirus Disease 2019 in Asymptomatic Patients Undergoing Cardiac Surgery. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021, 33, 417-424.	0.6	7
57	Peri-aortic fluid after surgery on the ascending aorta: Worrisome indicator of complications or innocent postoperative finding?. <i>European Journal of Radiology</i> , 2017, 95, 332-341.	2.6	6
58	CT angiography for depiction of complications after the Bentall procedure. <i>British Journal of Radiology</i> , 2019, 92, 20180226.	2.2	6
59	HEART score improves efficiency of coronary computed tomography angiography in patients suspected of acute coronary syndrome in the emergency department. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2020, 9, 23-29.	1.0	6
60	Ventricular response to dobutamine stress cardiac magnetic resonance imaging is associated with adverse outcome during 8-year follow-up in patients with repaired Tetralogy of Fallot. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, 21, 1039-1046.	1.2	6
61	Screening for coronary artery disease in early surgical treatment of acute aortic valve infective endocarditis. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2021, 32, 522-529.	1.1	6
62	Left ventricular global longitudinal strain in bicuspid aortic valve patients: head-to-head comparison between computed tomography, 4D flow cardiovascular magnetic resonance and speckle-tracking echocardiography. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 1771-1780.	1.5	5
63	Temporal changes in FFRCT-Guided Management of Coronary Artery Disease – Lessons from the ADVANCE Registry. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 48-55.	1.3	5
64	Bicuspid aortic valve annulus: assessment of geometry and size changes during the cardiac cycle as measured with a standardized method to define the annular plane. <i>European Radiology</i> , 2021, 31, 8116-8129.	4.5	5
65	Evaluating a calcium-aware kernel for CT CAC scoring with varying surrounding materials and heart rates: a dynamic phantom study. <i>European Radiology</i> , 2021, 31, 9211-9220.	4.5	5
66	CT-derived fractional flow reserve (FFR _{ct}) for functional coronary artery evaluation in the follow-up of patients after heart transplantation. <i>European Radiology</i> , 2022, 32, 1843-1852.	4.5	5
67	Abnormal Aortic Wall Properties in Women with Turner Syndrome. <i>Aorta</i> , 2020, 08, 121-131.	0.5	5
68	Novel Morphological Features on CMR for the Prediction of Pathogenic Sarcomere Gene Variants in Subjects Without Hypertrophic Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 727405.	2.4	4
69	Radiation dose reduction in pediatric great vessel stent computed tomography using iterative reconstruction: A phantom study. <i>PLoS ONE</i> , 2017, 12, e0175714.	2.5	4
70	Normal imaging findings after ascending aorta prosthesis implantation on 18F-Fluorodeoxyglucose Positron Emission Tomography with computed tomography. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2938-2948.	2.1	4
71	Longitudinal changes of thoracic aortic diameters in the general population aged 55 years or older. <i>Heart</i> , 2022, 108, 1767-1776.	2.9	4
72	Contemporary family screening in hypertrophic cardiomyopathy: the role of cardiovascular magnetic resonance. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1144-1154.	1.2	4

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73	Psychological well-being in patients with aneurysms&osteoarthritis syndrome. American Journal of Medical Genetics, Part A, 2019, 179, 1491-1497.	1.2	3
74	Aortic calcifications on routine preoperative chest X-ray and perioperative stroke during cardiac surgery: a nested matched case&control study. Interactive Cardiovascular and Thoracic Surgery, 2020, 30, 507-514.	1.1	3
75	Coronary plaque burden in Turner syndrome a coronary computed tomography angiography study. Heart and Vessels, 2021, 36, 14-23.	1.2	3
76	Influence of breathing state on the accuracy of automated patient positioning in thoracic CT using a 3D camera for body contour detection. European Radiology, 2022, 32, 442-447.	4.5	3
77	Coronary CT angiography for improved assessment of patients with acute chest pain and low-range positive high-sensitivity troponins: study protocol for a prospective, observational, multicentre study (COURSE trial). BMJ Open, 2021, 11, e049349.	1.9	3
78	Gender Differences in Patients With Stable Chest Pain. American Journal of Cardiology, 2022, 171, 84-90.	1.6	3
79	Hybrid 18F-fluorodeoxyglucose positron emission tomography/CT angiography in percutaneous pulmonary prosthetic valve endocarditis. European Heart Journal Cardiovascular Imaging, 2018, 19, 1188-1189.	1.2	2
80	Transcatheter Aortic Valve Implantation: The Evolving Role of the Radiologist in 2021. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2021, 193, 1411-1425.	1.3	2
81	Effect of routine preoperative screening for aortic calcifications using noncontrast computed tomography on stroke rate in cardiac surgery: the randomized controlled CRICKET study. European Radiology, 2021, , 1.	4.5	2
82	Early stentframe thrombosis complicating transcatheter valve in transcatheter valve implantation. European Heart Journal, 2017, 38, ehw538.	2.2	1
83	Screening for thoracic aortic pathology: Clinical practice in a single tertiary center. Congenital Heart Disease, 2018, 13, 988-996.	0.2	1
84	Surgically implanted aortic valve bioprostheses deform after implantation: insights from computed tomography. European Radiology, 2020, 30, 2651-2657.	4.5	1
85	A case report of an interrupted inferior vena cava and azygos continuation: implications for preoperative screening in minimally invasive cardiac surgery. European Heart Journal - Case Reports, 2021, 5, ytab308.	0.6	1
86	18F-FDG-Uptake in Mediastinal Lymph Nodes in Suspected Prosthetic Valve Endocarditis: Predictor or Confounder?. Frontiers in Cardiovascular Medicine, 2021, 8, 717774.	2.4	1
87	Left atrial appendage thrombus and cerebrovascular events post-transcatheter aortic valve implantation. European Heart Journal Cardiovascular Imaging, 2022, 23, 1345-1353.	1.2	1
88	Knowledge-based reconstruction for measurement of right ventricular volumes on cardiovascular magnetic resonance images in a mixed population. Congenital Heart Disease, 2017, 12, 561-569.	0.2	1
89	Distribution of Aortic Root Calcium in Relation to Frame Expansion and Paravalvular Leakage After Transcatheter Aortic Valve Implantation (TAVI): An Observational Study Using a Patient-specific Contrast Attenuation Coefficient for Calcium Definition and Independent Core Lab Analysis of Paravalvular Leakage. Journal of Cardiovascular Imaging, 0. 30. ,	0.7	1
90	Incidental findings on routine preoperative noncontrast chest computed tomography and chest radiography prior to cardiac surgery in the multicenter randomized controlled CRICKET study. European Radiology, 2023, 33, 294-301.	4.5	1

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91	Herniated liver mimicking an intracardiac mass in a newborn with omphalocele. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 153-154.	1.3	0
92	Quadricuspid Neoaortic Valve in Truncus Arteriosus Type II. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190074.	2.5	0
93	Transcatheter tricuspid valve-in-ring placement: complex valve obstruction by hypo-attenuating leaflet thickening, hypo-attenuation affecting motion, and native tricuspid valve remnant. <i>European Heart Journal</i> , 2020, 41, 973-973.	2.2	0
94	Variability in Echocardiographic Ascending Aortic Diameters due to Image Acquisition by Different Sonographers. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 249-252.e4.	2.8	0
95	Coronary aneurysm in a young patient with Turner syndrome. <i>Cardiology in the Young</i> , 2021, 31, 1019-1020.	0.8	0
96	Limitations of Transcatheter Heart Valve Replacement Depth Assessment by Invasive Angiography and Multi-Detector Computed Tomography Analysis. <i>Structural Heart</i> , 0, , 1-3.	0.6	0
97	Incidental findings on coronary computed tomography in women with selected reproductive disorders. <i>Insights Into Imaging</i> , 2022, 13, .	3.4	0