

Albert de Roos

List of Publications by Year in descending order

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97
papers

2,498
citations

218677

26
h-index

223800

46
g-index

100
all docs

100
docs citations

100
times ranked

3936
citing authors

#	ARTICLE	IF	CITATIONS
1	Prognostic Value of Multislice Computed Tomography and Gated Single-Photon Emission Computed Tomography in Patients With Suspected Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2009, 53, 623-632.	2.8	308
2	Deep Learning-based Method for Fully Automatic Quantification of Left Ventricle Function from Cine MR Images: A Multivendor, Multicenter Study. <i>Radiology</i> , 2019, 290, 81-88.	7.3	152
3	Body fat distribution, in particular visceral fat, is associated with cardiometabolic risk factors in obese women. <i>PLoS ONE</i> , 2017, 12, e0185403.	2.5	107
4	Assessment of viscous energy loss and the association with three-dimensional vortex ring formation in left ventricular inflow: In vivo evaluation using four-dimensional flow MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 794-805.	3.0	92
5	Blood pool contrast agents for cardiovascular MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 395-403.	3.4	83
6	Associations of Abdominal Subcutaneous and Visceral Fat with Insulin Resistance and Secretion Differ Between Men and Women: The Netherlands Epidemiology of Obesity Study. <i>Metabolic Syndrome and Related Disorders</i> , 2018, 16, 54-63.	1.3	82
7	Magnetic resonance direct thrombus imaging differentiates acute recurrent ipsilateral deep vein thrombosis from residual thrombosis. <i>Blood</i> , 2014, 124, 623-627.	1.4	81
8	Quantitative analysis of cardiovascular MR images. <i>International Journal of Cardiovascular Imaging</i> , 1997, 13, 247-258.	0.6	78
9	Arrhythmogenic Right Ventricular Dysplasia: MRI Findings. <i>Herz</i> , 2000, 25, 356-364.	1.1	72
10	Reproducibility of Human Cardiac ³¹ P-NMR Spectroscopy. , 1996, 9, 217-227.		65
11	Measurement of Right and Left Ventricular Function by ECG-Synchronized CT Scanning in Patients With Acute Pulmonary Embolism. <i>Chest</i> , 2011, 140, 1008-1015.	0.8	50
12	MR Imaging Evaluation of Cardiovascular Risk in Metabolic Syndrome. <i>Radiology</i> , 2012, 264, 21-37.	7.3	47
13	The Heart-Brain Connection: A Multidisciplinary Approach Targeting a Missing Link in the Pathophysiology of Vascular Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2014, 42, S443-S451.	2.6	45
14	Relations Between Aortic Stiffness and Left Ventricular Structure and Function in Older Participants in the Age, Gene/Environment Susceptibility-Reykjavik Study. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, e003039.	2.6	45
15	The Missing Link in the Pathophysiology of Vascular Cognitive Impairment: Design of the Heart-Brain Study. <i>Cerebrovascular Diseases Extra</i> , 2018, 7, 140-152.	1.5	44
16	Automated Cardiac Valve Tracking for Flow Quantification with Four-dimensional Flow MRI. <i>Radiology</i> , 2019, 290, 70-78.	7.3	43
17	Individual contributions of visceral fat and total body fat to subclinical atherosclerosis: The NEO study. <i>Atherosclerosis</i> , 2015, 241, 547-554.	0.8	41
18	Pulse Pressure Relation to Aortic and Left Ventricular Structure in the Age, Gene/Environment Susceptibility (AGES)-Reykjavik Study. <i>Hypertension</i> , 2014, 64, 756-761.	2.7	40

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19	Congenital Heart Disease. Evaluation of Anatomy and Function by MRI. Herz, 2000, 25, 365-383.	1.1	39
20	Magnetic resonance microscopy at 17.6-Tesla on chicken embryos in vitro. Journal of Magnetic Resonance Imaging, 2001, 14, 83-86.	3.4	39
21	Characterization and improved quantification of left ventricular inflow using streamline visualization with 4DFlow MRI in healthy controls and patients after atrioventricular septal defect correction. Journal of Magnetic Resonance Imaging, 2015, 41, 1512-1520.	3.4	33
22	In-scan and re-scan assessment of LV and outflow volumes by 4D flow MRI versus 2D planimetry. Journal of Magnetic Resonance Imaging, 2018, 47, 511-522.	3.4	33
23	Incremental diagnostic accuracy of computed tomography myocardial perfusion imaging over coronary angiography stratified by pre-test probability of coronary artery disease and severity of coronary artery calcification: The CORE320 study. International Journal of Cardiology, 2015, 201, 570-577.	1.7	31
24	Association of lung function measurements and visceral fat in men with metabolic syndrome. Respiratory Medicine, 2014, 108, 351-357.	2.9	30
25	Scan-re-scan reproducibility of segmental aortic wall shear stress as assessed by phase-specific segmentation with 4D flow MRI in healthy volunteers. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 653-663.	2.0	30
26	Postoperative evaluation of congenital heart disease by magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 1999, 10, 656-666.	3.4	29
27	Repeated Intramyocardial Bone Marrow Cell Injection in Previously Responding Patients With Refractory Angina Again Improves Myocardial Perfusion, Anginal Complaints, and Quality of Life. Circulation: Cardiovascular Interventions, 2015, 8, .	3.9	29
28	Disproportionate intraventricular viscous energy loss in Fontan patients: analysis by 4D flow MRI. European Heart Journal Cardiovascular Imaging, 2019, 20, 323-333.	1.2	29
29	Cardiac Radiology: Centenary Review. Radiology, 2014, 273, S142-S159.	7.3	27
30	Unravelling cardiovascular disease using four dimensional flow cardiovascular magnetic resonance. International Journal of Cardiovascular Imaging, 2017, 33, 1069-1081.	1.5	26
31	Caloric restriction lowers endocannabinoid tonus and improves cardiac function in type 2 diabetes. Nutrition and Diabetes, 2018, 8, 6.	3.2	26
32	Diagnosis and management of anomalous origin of the right coronary artery from the left coronary sinus. International Journal of Cardiovascular Imaging, 1999, 15, 253-258.	0.6	23
33	Scan-re-scan reproducibility of diastolic left ventricular kinetic energy, viscous energy loss and vorticity assessment using 4D flow MRI: analysis in healthy subjects. International Journal of Cardiovascular Imaging, 2018, 34, 905-920.	1.5	23
34	Metabolomics: a search for biomarkers of visceral fat and liver fat content. Metabolomics, 2019, 15, 139.	3.0	23
35	Right ventricular function in patients after acute myocardial infarction assessed with phase contrast MR velocity mapping encoded in three directions. Journal of Magnetic Resonance Imaging, 2000, 11, 471-475.	3.4	22
36	Variations in blood flow waveforms in stenotic renal arteries by 2D phase-contrast cine MRI. Journal of Magnetic Resonance Imaging, 1998, 8, 590-597.	3.4	20

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37	Equilibrium phase MR angiography of the aortic arch and abdominal vasculature with the blood pool contrast agent CMD-A2-Gd-DOTA in pigs. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 777-785.	3.4	20
38	Applications of multislice computed tomography in coronary artery disease. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 14-22.	3.4	20
39	Evaluation of coronary artery bypass grafts by magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 434-441.	3.4	19
40	Right ventricular systolic function and ventricular interaction during acute embolisation of the left anterior descending coronary artery in sheep. <i>Cardiovascular Research</i> , 1999, 43, 86-95.	3.8	18
41	Blood pool contrast agent CMD-A2-Gd-DOTA-enhanced MR imaging of infarcted myocardium in pigs. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 170-177.	3.4	18
42	Hypertensive Exposure Markers by MRI in Relation to Cerebral Small Vessel Disease and Cognitive Impairment. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 176-185.	5.3	18
43	MR of Multi-Organ Involvement in the Metabolic Syndrome. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015, 23, 41-58.	1.1	17
44	Double outlet right ventricle assessed with magnetic resonance imaging. <i>International Journal of Cardiovascular Imaging</i> , 1999, 15, 323-329.	0.6	16
45	Association between Hepatic Triglyceride Content and Left Ventricular Diastolic Function in a Population-based Cohort: The Netherlands Epidemiology of Obesity Study. <i>Radiology</i> , 2016, 279, 443-450.	7.3	15
46	Design of the ExCersionâ€VCI study: The effect of aerobic exercise on cerebral perfusion in patients with vascular cognitive impairment. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2017, 3, 157-165.	3.7	15
47	Comparative Evaluation of Flow Quantification across the Atrioventricular Valve in Patients with Functional Univentricular Heart after Fontan's Surgery and Healthy Controls: Measurement by 4D Flow Magnetic Resonance Imaging and Streamline Visualization. <i>Congenital Heart Disease</i> , 2017, 12, 40-48.	0.2	15
48	Incidental findings in research: A focus group study about the perspective of the research participant. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 230-237.	3.4	15
49	Excellent durability of homografts in pulmonary position analysed in a predefined adult group with tetralogy of Fallotâ€. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2019, 28, 279-283.	1.1	15
50	Normal and reference values for cardiovascular magnetic resonance-based pulse wave velocity in the middle-aged general population. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 46.	3.3	15
51	Quantification of common carotid artery and descending aorta vessel wall thickness from MR vessel wall imaging using a fully automated processing pipeline. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 215-228.	3.4	14
52	Sweet Snacks Are Positively and Fruits and Vegetables Are Negatively Associated with Visceral or Liver Fat Content in Middle-Aged Men and Women. <i>Journal of Nutrition</i> , 2019, 149, 304-313.	2.9	14
53	Associations of different body fat deposits with serum 25-hydroxyvitamin D concentrations. <i>Clinical Nutrition</i> , 2019, 38, 2851-2857.	5.0	14
54	Gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injection: scan optimization in vitro and in vivo. <i>International Journal of Cardiovascular Imaging</i> , 1999, 15, 161-173.	0.6	13

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55	Habitual Sleep Measures are Associated with Overall Body Fat, and not Specifically with Visceral Fat, in Men and Women. <i>Obesity</i> , 2018, 26, 1651-1658.	3.0	11
56	Adult weight change in relation to visceral fat and liver fat at middle age: The Netherlands epidemiology of obesity study. <i>International Journal of Obesity</i> , 2019, 43, 790-799.	3.4	11
57	Quantification of aortic pulse wave velocity from a population based cohort: a fully automatic method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 27.	3.3	11
58	Imaging of an aneurysm of the sinus of Valsalva with transesophageal echocardiography, contrast angiography and MRI. <i>International Journal of Cardiovascular Imaging</i> , 2000, 16, 35-41.	0.6	10
59	Coronary Computed Tomography Angiography: Patient-related factors determining image quality using a second-generation 320-slice CT scanner. <i>International Journal of Cardiology</i> , 2016, 221, 970-976.	1.7	10
60	Diagnosis of Myocarditis at Cardiac MRI: The Continuing Quest for Improved Tissue Characterization. <i>Radiology</i> , 2019, 292, 618-619.	7.3	10
61	Consumption of Alcoholic and Sugar-Sweetened Beverages is Associated with Increased Liver Fat Content in Middle-Aged Men and Women. <i>Journal of Nutrition</i> , 2019, 149, 649-658.	2.9	10
62	Predictors of response to intramyocardial bone marrow cell treatment in patients with refractory angina and chronic myocardial ischemia. <i>International Journal of Cardiology</i> , 2014, 175, 539-544.	1.7	9
63	Serum CETP concentration is not associated with measures of body fat: The NEO study. <i>Atherosclerosis</i> , 2016, 246, 267-273.	0.8	9
64	Impact of Cardiovascular Counseling and Screening in Hodgkin Lymphoma Survivors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 164-171.	0.8	8
65	Aortic Arch Stiffness Is Associated With Incipient Brain Injury in Patients With Hypertension. <i>American Journal of Hypertension</i> , 2016, 29, 705-712.	2.0	8
66	Association of Liver Enzymes and Computed Tomography Markers of Liver Steatosis with Familial Longevity. <i>PLoS ONE</i> , 2014, 9, e91085.	2.5	8
67	Genetically determined prospect to become long-lived is associated with less abdominal fat and in particular less abdominal visceral fat in men. <i>Age and Ageing</i> , 2015, 44, 713-717.	1.6	7
68	Liver Fat Assessed With CT Relates to MRI Markers of Incipient Brain Injury in Middle-Aged to Elderly Overweight Persons. <i>American Journal of Roentgenology</i> , 2016, 206, 1087-1092.	2.2	7
69	Biplane versus short-axis measures of the left atrium and ventricle in patients with systolic dysfunction assessed by magnetic resonance. <i>Clinical Imaging</i> , 2016, 40, 907-912.	1.5	7
70	Prognostic value of cardiovascular MR imaging biomarkers on outcome in peripheral arterial disease: a 6-year follow-up pilot study. <i>International Journal of Cardiovascular Imaging</i> , 2016, 32, 1281-1288.	1.5	7
71	Diagnosis of cardiac abnormalities in patients with nonischemic tachyarrhythmias: additional value of MR imaging. <i>International Journal of Cardiovascular Imaging</i> , 1998, 14, 279-285.	0.6	6
72	Association between changes in brain microstructure and cognition in older subjects at increased risk for vascular disease. <i>BMC Neurology</i> , 2015, 15, 133.	1.8	6

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73	Diagnosing Recurrent DVT of the Leg by Two Different Non-Contrast-Enhanced Magnetic Resonance Direct Thrombus Imaging Techniques: A Pilot Study. <i>TH Open</i> , 2019, 03, e37-e44.	1.4	6
74	Accuracy of Magnetic Resonance Direct Thrombus Imaging (MRDTI) As a Novel Tool in the Diagnosis of Acute Ipsilateral Recurrent Deep Vein Thrombosis. <i>Blood</i> , 2012, 120, 395-395.	1.4	6
75	Chest CT examinations in patients presenting with acute chest pain: a pictorial review. <i>Insights Into Imaging</i> , 2015, 6, 719-728.	3.4	4
76	Role of Cardiovascular Magnetic Resonance Imaging in Postoperative Follow-Up After the Arterial Switch Operation for Transposition of the Great Arteries. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	4
77	Associations between normal range albuminuria, renal function and cardiovascular function in a population-based imaging study. <i>Atherosclerosis</i> , 2018, 272, 94-100.	0.8	4
78	Chest X-Ray Not Routinely Indicated Prior to the YEARS Algorithm in the Diagnostic Management of Suspected Pulmonary Embolism. <i>TH Open</i> , 2019, 03, e22-e27.	1.4	4
79	Adherence to dietary guidelines in relation to visceral fat and liver fat in middle-aged men and women: the NEO study. <i>International Journal of Obesity</i> , 2020, 44, 297-306.	3.4	4
80	Changes in body fat and lipid metabolism in testicular cancer patients undergoing curative chemotherapy. <i>Journal of Clinical Oncology</i> , 2012, 30, 337-337.	1.6	4
81	Science to Practice: Why Follow the Track of Macrophages in Obesity?. <i>Radiology</i> , 2012, 263, 623-625.	7.3	3
82	Is Hepatic Triglyceride Content Associated with Aortic Pulse Wave Velocity and Carotid Intima-Media Thickness? The Netherlands Epidemiology of Obesity Study. <i>Radiology</i> , 2017, 285, 73-82.	7.3	3
83	Value of Relative Myocardial Perfusion at MRI for Fractional Flow Reserve-Defined Ischemia: A Pilot Study. <i>American Journal of Roentgenology</i> , 2019, 212, 1002-1009.	2.2	3
84	Association Between Hepatic Triglyceride Content and Coagulation Factors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 3004-3014.	2.4	3
85	High-temporal velocity-encoded MRI for the assessment of left ventricular inflow propagation velocity: Comparison with color mode echocardiography. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1297-1304.	3.4	2
86	Prognostic Value of CMR-Verified Myocardial Scarring in Cardiac Sarcoidosis. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 421-423.	5.3	2
87	Applicability and accuracy of pretest probability calculations implemented in the NICE clinical guideline for decision making about imaging in patients with chest pain of recent onset. <i>European Radiology</i> , 2018, 28, 4006-4017.	4.5	2
88	Blood pool contrast agents for cardiovascular MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 10, 395-403.	3.4	2
89	False Aneurysms of an Ascending-Aorta-to-Abdominal-Aorta Bypass for Coarctation of the Aorta. <i>Circulation</i> , 2001, 103, E92-3.	1.6	1
90	Onco-Cardiology: Value of Cardiac Imaging by Using CT and MRI after Radiation Therapy. <i>Radiology</i> , 2018, 289, 355-356.	7.3	1

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91	Altered ascending aortic wall shear stress in patients with corrected atrioventricular septal defect: a comprehensive cardiovascular magnetic resonance and 4D flow MRI evaluation. <i>Cardiology in the Young</i> , 2019, 29, 637-642.	0.8	1
92	Predicting Atrial Fibrillation from Automated Measurements of Left Atrial Volume Using Routine Chest CT Examination: Overlooked and Underrecognized Risk Factors. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190217.	2.5	1
93	Exploring the Interaction between Liver and Heart Disease. <i>Radiology</i> , 2020, 297, 62-63.	7.3	1
94	The Challenge of Automated Analysis of Myocardial Perfusion MRI: Is It Ready for Prime Time?. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1697-1698.	3.4	1
95	Blood pool contrast agents for cardiovascular MR imaging. , 1999, 10, 395.		1
96	The Many Faces of Myocarditis: Role of Cardiac MRI. <i>Radiology</i> , 2022, 302, 70-71.	7.3	1
97	Screening for coronary artery disease after mediastinal irradiation in Hodgkin lymphoma survivors.. <i>Journal of Clinical Oncology</i> , 2013, 31, 8568-8568.	1.6	0