Professor Edwin JR van Beek

List of Publications by Year
in descending order

139 papers	11,097 citations	44066 48 h-index	30081 103 g-index
145 all docs	145 docs citations	145 times ranked	11063 citing authors

#	Article	IF	Citations
1	Machine Learning with ¹⁸F-Sodium Fluoride PET and Quantitative Plaque Analysis on CT Angiography for the Future Risk of Myocardial Infarction. Journal of Nuclear Medicine, 2022, 63, 158-165.	5.0	34
2	Association of coronary artery calcium score with qualitatively and quantitatively assessed adverse plaque on coronary CT angiography in the SCOT-HEART trial. European Heart Journal Cardiovascular Imaging, 2022, 23, 1210-1221.	1.2	21
3	MRI and CT coronary angiography in survivors of COVID-19. Heart, 2022, 108, 46-53.	2.9	25
4	Lung injury caused by aspiration of organophosphorus insecticide and gastric contents in pigs. Clinical Toxicology, 2022, , 1-12.	1.9	2
5	Bypass Grafting and Native Coronary Artery Disease Activity. JACC: Cardiovascular Imaging, 2022, 15, 875-887.	5.3	24
6	Thoracic Aortic 18F-Sodium Fluoride Activity and Ischemic Stroke in Patients With Established Cardiovascular Disease. JACC: Cardiovascular Imaging, 2022, 15, 1274-1288.	5.3	27
7	Coronary Artery and Cardiac Disease in Patients With Type 2 Myocardial Infarction: A Prospective Cohort Study. Circulation, 2022, 145, 1188-1200.	1.6	32
8	Pericoronary Adipose Tissue Attenuation, Low-Attenuation Plaque Burden, and 5-Year Risk of Myocardial Infarction. JACC: Cardiovascular Imaging, 2022, 15, 1078-1088.	5.3	46
9	Validation of a deep learning computer aided system for CT based lung nodule detection, classification, and growth rate estimation in a routine clinical population. PLoS ONE, 2022, 17, e0266799.	2.5	13
10	Hepatosteatosis and Atherosclerotic Plaque at Coronary CT Angiography. Radiology: Cardiothoracic Imaging, 2022, 4, e210260.	2.5	6
11	¹⁸F-NaF PET/MRI for Detection of Carotid Atheroma in Acute Neurovascular Syndrome. Radiology, 2022, 305, 137-148.	7.3	7
12	Cardiovascular 18F-fluoride positron emission tomography-magnetic resonance imaging: A comparison study. Journal of Nuclear Cardiology, 2021, 28, 1-12.	2.1	25
13	Pharmacokinetic modelling for the simultaneous assessment of perfusion and 18F-flutemetamol uptake in cerebral amyloid angiopathy using a reduced PET-MR acquisition time: Proof of concept. NeuroImage, 2021, 225, 117482.	4.2	2
14	Imaging of pulmonary hypertension in adults: a position paper from the Fleischner Society. European Respiratory Journal, 2021, 57, 2004455.	6.7	42
15	Imaging of Pulmonary Hypertension in Adults: A Position Paper from the Fleischner Society. Radiology, 2021, 298, 531-549.	7.3	43
16	Xenon <scp>MRI</scp> for Future Assessment of Lungâ€‰Function and Treatment Response: Aâ€‰Commentary. Journal of Magnetic Resonance Imaging, 2021, 54, 1363-1364.	3.4	1
17	Effect of Denosumab or Alendronic Acid on the Progression of Aortic Stenosis: A Double-Blind Randomized Controlled Trial. Circulation, 2021, 143, 2418-2427.	1.6	61
18	Pulmonary embolism severity before and during the COVID-19 pandemic. British Journal of Radiology, 2021, 94, 20210264.	2.2	8

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19	Integrated Cardiopulmonary MRI Assessment of Pulmonary Hypertension. Journal of Magnetic Resonance Imaging, 2021, , .	3.4	7
20	Native Aortic Valve Disease Progression and Bioprosthetic Valve Degeneration in Patients With Transcatheter Aortic Valve Implantation. Circulation, 2021, 144, 1396-1408.	1.6	32
21	Hippocampal viscoelasticity and episodic memory performance in healthy older adults examined with magnetic resonance elastography. Brain Imaging and Behavior, 2020, 14, 175-185.	2.1	38
22	Magnetic resonance elastography (MRE) shows significant reduction of thigh muscle stiffness in healthy older adults. GeroScience, 2020, 42, 311-321.	4.6	16
23	Sex associations and computed tomography coronary angiography-guided management in patients with stable chest pain. European Heart Journal, 2020, 41, 1337-1345.	2.2	28
24	Current state of the art MRI for the longitudinal assessment of cystic fibrosis. Journal of Magnetic Resonance Imaging, 2020, 52, 1306-1320.	3.4	53
25	Computed tomography aortic valve calcium scoring for the assessment of aortic stenosis progression. Heart, 2020, 106, 1906-1913.	2.9	22
26	<scp>d</scp>-Dimer and COVID-19. Radiology, 2020, 297, E343-E344.	7.3	4
27	The vascular nature of COVID-19. British Journal of Radiology, 2020, 93, 20200718.	2.2	11
28	Expanding Applications of Pulmonary MRI in the Clinical Evaluation of Lung Disorders: Fleischner Society Position Paper. Radiology, 2020, 297, 286-301.	7.3	95
29	Coronary ¹⁸ F-Fluoride Uptake and Progression of Coronary Artery Calcification. Circulation: Cardiovascular Imaging, 2020, 13, e011438.	2.6	43
30	Coronary 18F-Sodium Fluoride Uptake Predicts Outcomes in Patients With Coronary Artery Disease. Journal of the American College of Cardiology, 2020, 75, 3061-3074.	2.8	100
31	Bone marrow adipose tissue is a unique adipose subtype with distinct roles in glucose homeostasis. Nature Communications, 2020, 11, 3097.	12.8	98
32	Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction. Circulation, 2020, 141, 1452-1462.	1.6	348
33	Diagnosis, Prevention, and Treatment of Thromboembolic Complications in COVID-19: Report of the National Institute for Public Health of the Netherlands. Radiology, 2020, 297, E216-E222.	7.3	261
34	Mechanical property alterations across the cerebral cortex due to Alzheimerâ€™s disease. Brain Communications, 2020, 2, fcz049.	3.3	57
35	Value of MRI in medicine: More than just another test?. Journal of Magnetic Resonance Imaging, 2019, 49, e14-e25.	3.4	78
36	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. European Heart Journal, 2019, 40, 3529-3543.	2.2	268

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37	Coronary Artery Plaque Characteristics Associated With Adverse Outcomes inÂthe SCOT-HEART Study. Journal of the American College of Cardiology, 2019, 73, 291-301.	2.8	367
38	Statement on imaging and pulmonary hypertension from the Pulmonary Vascular Research Institute (PVRI). Pulmonary Circulation, 2019, 9, 1-32.	1.7	96
39	Detection and Prediction of BioprostheticÂAortic Valve Degeneration. Journal of the American College of Cardiology, 2019, 73, 1107-1119.	2.8	110
40	High-resolution magnetic resonance elastography reveals differences in subcortical gray matter viscoelasticity between young and healthy older adults. Neurobiology of Aging, 2018, 65, 158-167.	3.1	77
41	Multimodality Quantitative Assessments of Myocardial Perfusion Using Dynamic Contrast Enhanced Magnetic Resonance and ¹⁵O-Labeled Water Positron Emission Tomography Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 259-271.	3.7	12
42	18Fâ€“Sodium Fluoride Uptake in AbdominalÂAortic Aneurysms. Journal of the American College of Cardiology, 2018, 71, 513-523.	2.8	122
43	Validation of an imaging based cardiovascular risk score in a Scottish population. European Journal of Radiology, 2018, 98, 143-149.	2.6	3
44	MRI for solitary pulmonary nodule and mass assessment: Current state of the art. Journal of Magnetic Resonance Imaging, 2018, 47, 1437-1458.	3.4	35
45	1â€…18F-fluoride and 18F-fluorodeoxyglucose positron emission tomography after transient ischaemic attack or minor ischaemic stroke. , 2018, , .		1
46	Substantial Metabolic Activity of Human Brown Adipose Tissue during Warm Conditions and Cold-Induced Lipolysis of Local Triglycerides. Cell Metabolism, 2018, 27, 1348-1355.e4.	16.2	101
47	Coronary CT Angiography and 5-Year Risk of Myocardial Infarction. New England Journal of Medicine, 2018, 379, 924-933.	27.0	898
48	Magnetic resonance angiography for the primary diagnosis of pulmonary embolism: A review from the international workshop for pulmonary functional imaging. World Journal of Radiology, 2018, 10, 52-64.	1.1	22
49	Nonlinear multiscale regularisation in MR elastography: Towards fine feature mapping. Medical Image Analysis, 2017, 35, 133-145.	11.6	46
50	MR elastography measurement of the effect of passive warmup prior to eccentric exercise on thigh muscle mechanical properties. Journal of Magnetic Resonance Imaging, 2017, 46, 1115-1127.	3.4	12
51	¹⁸ F-Fluoride and ¹⁸ F-Fluorodeoxyglucose Positron Emission Tomography After Transient Ischemic Attack or Minor Ischemic Stroke. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	91
52	Exploring the Biological and Mechanical Properties of Abdominal Aortic Aneurysms Using USPIO MRI and Peak Tissue Stress: A Combined Clinical and Finite Element Study. Journal of Cardiovascular Translational Research, 2017, 10, 489-498.	2.4	9
53	Computed tomography myocardial perfusion vs 15O-water positron emission tomography and fractional flow reserve. European Radiology, 2017, 27, 1114-1124.	4.5	25
54	Screening for lung cancer: Does MRI have a role?. European Journal of Radiology, 2017, 86, 353-360.	2.6	62

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55	Pulmonary CT and MRI phenotypes that help explain chronic pulmonary obstruction disease pathophysiology and outcomes. Journal of Magnetic Resonance Imaging, 2016, 43, 544-557.	3.4	59
56	Balanced translocation linked to psychiatric disorder, glutamate, and cortical structure/function. NPJ Schizophrenia, 2016, 2, 16024.	3.6	41
57	Optimization and Reproducibility of Aortic Valve 18F-Fluoride Positron Emission Tomography in Patients With Aortic Stenosis. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	61
58	Magnetic resonance elastography (MRE) of the human brain: technique, findings and clinical applications. Physics in Medicine and Biology, 2016, 61, R401-R437.	3.0	176
59	Long-term adverse effects associated with isolated below-knee deep-vein thrombosis: a 10-year follow-up study. Clinical Radiology, 2016, 71, 369-374.	1.1	4
60	Use of Coronary Computed Tomographic Angiography to Guide Management of Patients With Coronary Disease. Journal of the American College of Cardiology, 2016, 67, 1759-1768.	2.8	274
61	Glucocorticoids Acutely Increase Brown Adipose Tissue Activity in Humans, Revealing Species-Specific Differences in UCP-1 Regulation. Cell Metabolism, 2016, 24, 130-141.	16.2	147
62	Association between Functional Small Airway Disease and FEV₁ Decline in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 178-184.	5.6	292
63	Positron Emission Tomography and Magnetic Resonance Imaging of Cellular Inflammation in Patients with Abdominal Aortic Aneurysms. European Journal of Vascular and Endovascular Surgery, 2016, 51, 518-526.	1.5	43
64	T1 characteristics of interstitial pulmonary fibrosis on 3T MRI-a predictor of early interstitial change?. Quantitative Imaging in Medicine and Surgery, 2016, 6, 42-9.	2.0	25
65	Valvular 18F-Fluoride and 18F-Fluorodeoxyglucose Uptake Predict Disease Progression and Clinical Outcome in Patients With Aortic Stenosis. Journal of the American College of Cardiology, 2015, 66, 1200-1201.	2.8	88
66	MRI using ultrasmall superparamagnetic particles of iron oxide in patients under surveillance for abdominal aortic aneurysms to predict rupture or surgical repair: MRI for abdominal aortic aneurysms to predict rupture or surgeryâ€"the MA³RS study. Open Heart, 2015, 2, e000190.	2.3	41
67	Observer variability in the assessment of CT coronary angiography and coronary artery calcium score: substudy of the Scottish COmputed Tomography of the HEART (SCOT-HEART) trial. Open Heart, 2015, 2, e000234.	2.3	35
68	Imaging of cardiovascular risk in patients with Turner's syndrome. Clinical Radiology, 2015, 70, 803-814.	1.1	28
69	Functional Imaging. Clinics in Chest Medicine, 2015, 36, 349-363.	2.1	14
70	â€˜Presenting CXR phenotype of H1N1â€™ flu compared with contemporaneous non-H1N1, community acquired pneumonia, during pandemic and post-pandemic outbreaksâ€™. European Journal of Radiology, 2015, 84, 1810-1815.	2.6	4
71	A Genome-Wide Association Study of Emphysema and Airway Quantitative Imaging Phenotypes. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 559-569.	5.6	128
72	PET/CT versus MRI for diagnosis, staging, and follow-up of lung cancer. Journal of Magnetic Resonance Imaging, 2015, 42, 247-260.	3.4	60

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73	Lung cancer screening: Computed tomography or chest radiographs?. World Journal of Radiology, 2015, 7, 189.	1.1	29
74	Magnetic Resonance Imaging of Ventilation and Perfusion Changes in Response to Pulmonary Endarterectomy in Chronic Thromboembolic Pulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2014, 190, e18-e19.	5.6	18
75	Quantitative Magnetic Resonance Imaging of Pulmonary Hypertension. Journal of Thoracic Imaging, 2014, 29, 68-79.	1.5	68
76	18F-Sodium Fluoride Uptake Is a Marker of Active Calcification and Disease Progression in Patients With Aortic Stenosis. Circulation: Cardiovascular Imaging, 2014, 7, 371-378.	2.6	210
77	How to successfully achieve an academically productive radiology department. Pediatric Radiology, 2014, 44, 1053-1055.	2.0	0
78	18F-fluoride positron emission tomography for identification of ruptured and high-risk coronary atherosclerotic plaques: a prospective clinical trial. Lancet, The, 2014, 383, 705-713.	13.7	804
79	Statistical mapping of the effect of knee extension on thigh muscle viscoelastic properties using magnetic resonance elastography. Physiological Measurement, 2013, 34, 1675-1698.	2.1	29
80	Assessment of Valvular Calcification and Inflammation by Positron Emission Tomography in Patients With Aortic Stenosis. Circulation, 2012, 125, 76-86.	1.6	280
81	Coronary Arterial 18F-Sodium Fluoride Uptake. Journal of the American College of Cardiology, 2012, 59, 1539-1548.	2.8	445
82	The Lung Image Database Consortium (LIDC) and Image Database Resource Initiative (IDRI): A Completed Reference Database of Lung Nodules on CT Scans. Medical Physics, 2011, 38, 915-931.	3.0	1,659
83	Evaluation of rHA labeled with Gdâ€“DTPA for blood pool imaging and targeted contrast delivery. Contrast Media and Molecular Imaging, 2010, 5, 39-43.	0.8	4
84	Imaging phenotypes of chronic obstructive pulmonary disease. Journal of Magnetic Resonance Imaging, 2010, 32, 1340-1352.	3.4	20
85	Imaging of acute respiratory distress syndrome. Expert Opinion on Medical Diagnostics, 2010, 4, 359-372.	1.6	1
86	Hyperpolarised 3He MRI versus HRCT in COPD and normal volunteers: PHIL trial. European Respiratory Journal, 2009, 34, 1311-1321.	6.7	96
87	Assessment of hyperpolarized ³He lung MRI for regional evaluation of interventional therapy: A pilot study in pediatric cystic fibrosis. Journal of Magnetic Resonance Imaging, 2009, 30, 981-988.	3.4	71
88	Imaging in COPD. Imaging Decisions (Berlin, Germany), 2009, 13, 11-17.	0.2	6
89	Clinical Impact of Radiologist Interpretation of CT in PET-CT Imaging. Imaging Decisions (Berlin,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.2	0
90	CT and MRI of pericardial and cardiac neoplastic disease. Cancer Imaging, 2007, 7, 19-26.	2.8	47

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91	Virtual Bronchoscopy. Imaging Decisions (Berlin, Germany), 2007, 11, 10-20.	0.2	5
92	Assessment of lung disease in children with cystic fibrosis using hyperpolarized 3-Helium MRI: comparison with Shwachman score, Chrispin-Norman score and spirometry. European Radiology, 2007, 17, 1018-1024.	4.5	98
93	Hyperpolarized 3helium magnetic resonance ventilation imaging of the lung in cystic fibrosis: comparison with high resolution CT and spirometry. European Radiology, 2006, 16, 2483-2490.	4.5	92
94	Combined helium-3/proton magnetic resonance imaging measurement of ventilated lung volumes in smokers compared to never-smokers. Journal of Magnetic Resonance Imaging, 2005, 21, 365-369.	3.4	169
95	Quantitative analysis of regional airways obstruction using dynamic hyperpolarized3He MRIâ€"Preliminary results in children with cystic fibrosis. Journal of Magnetic Resonance Imaging, 2005, 22, 420-426.	3.4	93
96	3D volume-localizedpO2 measurement in the human lung with3He MRI. Magnetic Resonance in Medicine, 2005, 53, 1055-1064.	3.0	101
97	Hyperpolarized 3-Helium Magnetic Resonance Imaging to Probe Lung Function. Proceedings of the American Thoracic Society, 2005, 2, 528-532.	3.5	33
98	Emphysematous changes and normal variation in smokers and COPD patients using diffusion 3He MRI. European Journal of Radiology, 2005, 54, 352-358.	2.6	162
99	Ventilation Imaging: a New Emphasis on Chest Imaging. Imaging Decisions (Berlin, Germany), 2004, 8, 1-2.	0.2	0
100	Ventilation Imaging Using Computed Tomography. Imaging Decisions (Berlin, Germany), 2004, 8, 15-23.	0.2	1
101	Ventilation MRI Using Hyperpolarized 3-Helium Gas. Imaging Decisions (Berlin, Germany), 2004, 8, 29-36.	0.2	0
102	MRI of helium-3 gas in healthy lungs: Posture related variations of alveolar size. Journal of Magnetic Resonance Imaging, 2004, 20, 331-335.	3.4	76
103	Functional MRI of the lung using hyperpolarized 3-helium gas. Journal of Magnetic Resonance Imaging, 2004, 20, 540-554.	3.4	238
104	Comparison between 2D and 3D gradient-echo sequences for MRI of human lung ventilation with hyperpolarized3He. Magnetic Resonance in Medicine, 2004, 52, 673-678.	3.0	79
105	Finite-difference simulations of3He diffusion in 3D alveolar ducts: Comparison with the ?cylinder model?. Magnetic Resonance in Medicine, 2004, 52, 917-920.	3.0	44
106	Hyperpolarized 3-helium MR imaging of the lungs: testing the concept of a central production facility. European Radiology, 2003, 13, 2583-2586.	4.5	43
107	Mechanical Thrombectomy for Early Treatment of Massive Pulmonary Embolism. CardioVascular and Interventional Radiology, 2003, 26, 246-250.	2.0	35
108	MRI for the diagnosis of pulmonary embolism. Journal of Magnetic Resonance Imaging, 2003, 18, 627-640.	3.4	68

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109	Dynamic radial projection MRI of inhaled hyperpolarized3He gas. Magnetic Resonance in Medicine, 2003, 49, 991-997.	3.0	120
110	Assessment and compensation of susceptibility artifacts in gradient echo MRI of hyperpolarized3He gas. Magnetic Resonance in Medicine, 2003, 50, 417-422.	3.0	19
111	Prospective Study of Color Duplex Ultrasonography Compared with Contrast Venography in Patients Suspected of Having Deep Venous Thrombosis of the Upper Extremities. Annals of Internal Medicine, 2002, 136, 865.	3.9	150
112	k-Space filtering in 2D gradient-echo breath-hold hyperpolarized3He MRI: Spatial resolution and signal-to-noise ratio considerations. Magnetic Resonance in Medicine, 2002, 47, 687-695.	3.0	74
113	Diagnosis and Treatment of Pulmonary Embolism: An Overview. Imaging Decisions (Berlin, Germany), 2002, 6, 3-10.	0.2	3
114	MRI for the Diagnosis of Pulmonary Embolism. Imaging Decisions (Berlin, Germany), 2002, 6, 22-28.	0.2	0
115	Initial and Long-Term Treatment of Deep Vein Thrombosis. , 0, , 473-485.		1
116	Interventional Techniques for Venous Thrombosis. , 0, , 539-551.		0
117	Surgical Intervention in the Treatment of Pulmonary Embolism and Chronic Thromboembolic Pulmonary Hypertension. , 0, , 513-537.		0
118	Echocardiography in Pulmonary Embolism. , 0, , 247-261.		0
119	Management of Venous Thromboembolic Disease in Childhood. , 0, , 373-404.		2
120	Management of Suspected Chronic Thromboembolic Pulmonary Hypertension. , 0, , 405-420.		1
121	Pharmacological Prevention of Venous Thromboembolism. , 0, , 435-461.		4
122	Vena Cava Filters and Venous Thromboembolism. , 0, , 463-471.		0
123	Initial and Long-Term Treatment of Patients with Pulmonary Embolism. , 0, , 487-501.		0
124	Lung Scintigraphy. , 0, , 135-169.		0
125	MRI and MRA of the Pulmonary Vasculature. , 0, , 171-219.		0
126	Computed Tomography for Thromboembolic Disease. , 0, , 113-133.		0

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127	Causes of Venous Thrombosis. , 0, , 1-26.		2
128	Mechanical Prevention of Venous Thromboembolism. , 0, , 421-434.		0
129	Ultrasonography of Deep Vein Thrombosis. , 0, , 263-278.		0
130	Clinical Presentation of Pulmonary Embolism. , 0, , 61-69.		1
131	Plasma D-Dimer and Venous Thromboembolic Disease. , 0, , 85-111.		3
132	Management of Venous Thromboembolism in Pregnancy. , 0, , 353-371.		3
133	Thrombolysis for the Treatment of Pulmonary Embolism. , 0, , 503-512.		0
134	Clinical Presentation of Deep Vein Thrombosis. , 0, , 53-60.		1
135	The Natural History of Venous Thromboembolism. , 0, , 27-52.		0
136	Pulmonary Angiography: Technique, Indications and Complications. , 0, , 221-246.		1
137	Diagnostic Management Strategies in Patients with Suspected Deep Vein Thrombosis. , 0, , 315-327.		0
138	Clinical Prediction Rules for Diagnosis of Venous Thromboembolism. , 0, , 71-84.		0
139	Emerging techniques in atherosclerosis imaging. Digital Diagnostics, 0, , .	0.6	0