

# Matthijs Oudkerk

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

371  
papers

18,518  
citations

68  
h-index

124  
g-index

387  
ext. papers

21,922  
ext. citations

7.2  
avg, IF

6.42  
L-index

#	Paper	IF	Citations
371	Early detection of obstructive coronary artery disease in the asymptomatic high-risk population: objectives and study design of the EARLY-SYNERGY trial.. <i>American Heart Journal</i> , <b>2022</b> , 246, 166-166	4.9	1
370	Outstanding negative prediction performance of solid pulmonary nodule volume AI for ultra-LDCT baseline lung cancer screening risk stratification.. <i>Lung Cancer</i> , <b>2022</b> , 165, 133-140	5.9	3
369	AI-Driven Model for Automatic Emphysema Detection in Low-Dose Computed Tomography Using Disease-Specific Augmentation.. <i>Journal of Digital Imaging</i> , <b>2022</b> , 1	5.3	0
368	Low-Dose CT lung cancer screening; clinical evidence and implementation research.. <i>Journal of Internal Medicine</i> , <b>2022</b> ,	10.8	2
367	Facilitating standardized COVID-19 suspicion prediction based on computed tomography radiomics in a multi-demographic setting.. <i>European Radiology</i> , <b>2022</b> , 1	8	0
366	T2* assessment of the three coronary artery territories of the left ventricular wall by different monoexponential truncation methods.. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2022</b> , 1	2.8	
365	Breast Tumor Identification in Ultrafast MRI Using Temporal and Spatial Information.. <i>Cancers</i> , <b>2022</b> , 14,	6.6	2
364	Coronary calcium scoring as first-line test to detect and exclude coronary artery disease in patients presenting to the general practitioner with stable chest pain: protocol of the cluster-randomised CONCRETE trial.. <i>BMJ Open</i> , <b>2022</b> , 12, e055123	3	0
363	Lung Cancer Screening and Nodule Detection: The Role of Artificial Intelligence. <i>Contemporary Medical Imaging</i> , <b>2022</b> , 459-469	0.1	
362	Performance of a deep learning-based lung nodule detection system as an alternative reader in a Chinese lung cancer screening program. <i>European Journal of Radiology</i> , <b>2021</b> , 146, 110068	4.7	1
361	Cardiovascular Risk Factors and Coronary Calcification in a Middle-aged Dutch Population: The ImaLife Study. <i>Journal of Thoracic Imaging</i> , <b>2021</b> , 36, 174-180	5.6	1
360	Lung cancer prediction by Deep Learning to identify benign lung nodules. <i>Lung Cancer</i> , <b>2021</b> , 154, 1-4	5.9	12
359	COVID-19: angiotensin II in development of lung immunothrombosis and vasculitis mimics. <i>Lancet Rheumatology</i> , <i>The</i> , <b>2021</b> , 3, e325-e326	14.2	1
358	Computed Tomography Screening for Early Lung Cancer, COPD and Cardiovascular Disease in Shanghai: Rationale and Design of a Population-based Comparative Study. <i>Academic Radiology</i> , <b>2021</b> , 28, 36-45	4.3	7
357	High-pitch dual-source CT for coronary artery calcium scoring: A head-to-head comparison of non-triggered chest versus triggered cardiac acquisition. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2021</b> , 15, 65-72	2.8	4
356	Lung cancer LDCT screening and mortality reduction - evidence, pitfalls and future perspectives. <i>Nature Reviews Clinical Oncology</i> , <b>2021</b> , 18, 135-151	19.4	62
355	Evaluation of a novel deep learning-based classifier for perifissural nodules. <i>European Radiology</i> , <b>2021</b> , 31, 4023-4030	8	

354	Deep convolutional neural networks for multiplanar lung nodule detection: Improvement in small nodule identification. <i>Medical Physics</i> , <b>2021</b> , 48, 733-744	4.4	7
353	Coronary Artery Calcium and Cognitive Function in Dutch Adults: Cross-Sectional Results of the Population-Based ImaLife Study. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e018172	6	2
352	A contrast-enhanced-CT-based classification tree model for classifying malignancy of solid lung tumors in a Chinese clinical population. <i>Journal of Thoracic Disease</i> , <b>2021</b> , 13, 4407-4417	2.6	1
351	Optimization of CT windowing for diagnosing invasiveness of adenocarcinoma presenting as sub-solid nodules. <i>European Journal of Radiology</i> , <b>2020</b> , 128, 108981	4.7	0
350	Lung cancer occurrence attributable to passive smoking among never smokers in China: a systematic review and meta-analysis. <i>Translational Lung Cancer Research</i> , <b>2020</b> , 9, 204-217	4.4	12
349	Deep learning for automated exclusion of cardiac CT examinations negative for coronary artery calcium. <i>European Journal of Radiology</i> , <b>2020</b> , 129, 109114	4.7	11
348	Screening for coronary artery calcium in a high-risk population: the ROBINSICA trial. <i>European Journal of Preventive Cardiology</i> , <b>2020</b> , 2047487320932263	3.9	2
347	The International Association for the Study of Lung Cancer Early Lung Imaging Confederation. <i>JCO Clinical Cancer Informatics</i> , <b>2020</b> , 4, 89-99	5.2	6
346	Recommendations for Implementing Lung Cancer Screening with Low-Dose Computed Tomography in Europe. <i>Cancers</i> , <b>2020</b> , 12,	6.6	18
345	Screening for cardiovascular disease risk using traditional risk factor assessment or coronary artery calcium scoring: the ROBINSICA trial. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2020</b> , 21, 1216-1224 <sup>4.1</sup>	4.1	19
344	Deep learning-based pulmonary nodule detection: Effect of slab thickness in maximum intensity projections at the nodule candidate detection stage. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 196, 105620	6.9	5
343	The Relationship of Coronary Artery Calcium and Clinical Coronary Artery Disease with Cognitive Function: A Systematic Review and Meta-Analysis. <i>Journal of Atherosclerosis and Thrombosis</i> , <b>2020</b> , 27, 934-958	4	4
342	Less Is More in Lung Cancer Risk Prediction Models. <i>JAMA Network Open</i> , <b>2020</b> , 3, e1921492	10.4	1
341	Reduced Lung-Cancer Mortality with Volume CT Screening in a Randomized Trial. <i>New England Journal of Medicine</i> , <b>2020</b> , 382, 503-513	59.2	734
340	Development and application of artificial intelligence in cardiac imaging. <i>British Journal of Radiology</i> , <b>2020</b> , 93, 20190812	3.4	6
339	Clinical characteristics and work-up of small to intermediate-sized pulmonary nodules in a Chinese dedicated cancer hospital. <i>Cancer Biology and Medicine</i> , <b>2020</b> , 17, 199-207	5.2	4
338	Potential for dose reduction in CT emphysema densitometry with post-scan noise reduction: a phantom study. <i>British Journal of Radiology</i> , <b>2020</b> , 93, 20181019	3.4	6
337	Assessment of Dynamic Change of Coronary Artery Geometry and Its Relationship to Coronary Artery Disease, Based on Coronary CT Angiography. <i>Journal of Digital Imaging</i> , <b>2020</b> , 33, 480-489	5.3	2

336	Cardiac T * mapping: Techniques and clinical applications. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 52, 1340-1351	5.6	15
335	d-Dimer and COVID-19. <i>Radiology</i> , <b>2020</b> , 297, E343-E344	20.5	2
334	Design, Implementation, and Validation of a Pulsatile Heart Phantom Pump. <i>Journal of Digital Imaging</i> , <b>2020</b> , 33, 1301-1305	5.3	0
333	The vascular nature of COVID-19. <i>British Journal of Radiology</i> , <b>2020</b> , 93, 20200718	3.4	6
332	Early imaging biomarkers of lung cancer, COPD and coronary artery disease in the general population: rationale and design of the ImaLife (Imaging in Lifelines) Study. <i>European Journal of Epidemiology</i> , <b>2020</b> , 35, 75-86	12.1	14
331	New Fissure-Attached Nodules in Lung Cancer Screening: A Brief Report From The NELSON Study. <i>Journal of Thoracic Oncology</i> , <b>2020</b> , 15, 125-129	8.9	9
330	Early detection of heart function abnormality by native T1: a comparison of two T1 quantification methods. <i>European Radiology</i> , <b>2020</b> , 30, 652-662	8	3
329	Automatic Pulmonary Nodule Detection in CT Scans Using Convolutional Neural Networks Based on Maximum Intensity Projection. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 797-805	11.7	37
328	Diagnosis, Prevention, and Treatment of Thromboembolic Complications in COVID-19: Report of the National Institute for Public Health of the Netherlands. <i>Radiology</i> , <b>2020</b> , 297, E216-E222	20.5	172
327	A Subsolid Nodules Imaging Reporting System (SSN-IRS) for Classifying 3 Subtypes of Pulmonary Adenocarcinoma. <i>Clinical Lung Cancer</i> , <b>2020</b> , 21, 314-325.e4	4.9	1
326	An Update on the European Lung Cancer Screening Trials and Comparison of Lung Cancer Screening Recommendations in Europe. <i>Journal of Thoracic Imaging</i> , <b>2019</b> , 34, 65-71	5.6	9
325	Robotic versus Freehand Needle Positioning in CT-guided Ablation of Liver Tumors: A Randomized Controlled Trial. <i>Radiology</i> , <b>2019</b> , 290, 826-832	20.5	19
324	Intermodel disagreement of myocardial blood flow estimation from dynamic CT perfusion imaging. <i>European Journal of Radiology</i> , <b>2019</b> , 110, 175-180	4.7	13
323	Methods of computed tomography screening and management of lung cancer in Tianjin: design of a population-based cohort study. <i>Cancer Biology and Medicine</i> , <b>2019</b> , 16, 181-188	5.2	7
322	Automated plaque analysis for the prognostication of major adverse cardiac events. <i>European Journal of Radiology</i> , <b>2019</b> , 116, 76-83	4.7	21
321	Probability of cancer in lung nodules using sequential volumetric screening up to 12 months: the UKLS trial. <i>Thorax</i> , <b>2019</b> , 74, 761-767	7.3	15
320	Impact of a cardiovascular disease risk screening result on preventive behaviour in asymptomatic participants of the ROBINSCA trial. <i>European Journal of Preventive Cardiology</i> , <b>2019</b> , 26, 1313-1322	3.9	14
319	Agreement of 2D transthoracic echocardiography with cardiovascular magnetic resonance imaging after ST-elevation myocardial infarction. <i>European Journal of Radiology</i> , <b>2019</b> , 114, 6-13	4.7	2

318	Convolutional neural network to predict the local recurrence of giant cell tumor of bone after curettage based on pre-surgery magnetic resonance images. <i>European Radiology</i> , <b>2019</b> , 29, 5441-5451	8	15
317	Screening for Early Lung Cancer, Chronic Obstructive Pulmonary Disease, and Cardiovascular Disease (the Big-3) Using Low-dose Chest Computed Tomography: Current Evidence and Technical Considerations. <i>Journal of Thoracic Imaging</i> , <b>2019</b> , 34, 160-169	5.6	20
316	T1 reactivity as an imaging biomarker in myocardial tissue characterization discriminating normal, ischemic and infarcted myocardium. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 1319-1325	2.5	10
315	Comparison of Veterans Affairs, Mayo, Brock classification models and radiologist diagnosis for classifying the malignancy of pulmonary nodules in Chinese clinical population. <i>Translational Lung Cancer Research</i> , <b>2019</b> , 8, 605-613	4.4	10
314	Deep learning to stratify lung nodules on annual follow-up CT. <i>The Lancet Digital Health</i> , <b>2019</b> , 1, e324-e325	3.4	15
313	Persisting new nodules in incidence rounds of the NELSON CT lung cancer screening study. <i>Thorax</i> , <b>2019</b> , 74, 247-253	7.3	13
312	Iodine quantification based on rest / stress perfusion dual energy CT to differentiate ischemic, infarcted and normal myocardium. <i>European Journal of Radiology</i> , <b>2019</b> , 112, 136-143	4.7	5
311	Feasibility of extracellular volume quantification using dual-energy CT. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2019</b> , 13, 81-84	2.8	13
310	Low CT temporal sampling rates result in a substantial underestimation of myocardial blood flow measurements. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 539-547	2.5	4
309	Low-dose CT for lung cancer screening - AuthorsPreply. <i>Lancet Oncology, The</i> , <b>2018</b> , 19, e135-e136	21.7	3
308	Characteristics of new solid nodules detected in incidence screening rounds of low-dose CT lung cancer screening: the NELSON study. <i>Thorax</i> , <b>2018</b> , 73, 741-747	7.3	22
307	EUPS-argues that lung cancer screening should be implemented in 18 months. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20180243	3.4	3
306	High-pitch versus sequential mode for coronary calcium in individuals with a high heart rate: Potential for dose reduction. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2018</b> , 12, 298-304	2.8	8
305	Imaging the myocardial ischemic cascade. <i>International Journal of Cardiovascular Imaging</i> , <b>2018</b> , 34, 1249-1263	2.63	24
304	The relationship between applied energy and ablation zone volume in patients with hepatocellular carcinoma and colorectal liver metastasis. <i>European Radiology</i> , <b>2018</b> , 28, 3228-3236	8	27
303	Influence of lung nodule margin on volume- and diameter-based reader variability in CT lung cancer screening. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20170405	3.4	17
302	Accurate late gadolinium enhancement prediction by early T1- based quantitative synthetic mapping. <i>European Radiology</i> , <b>2018</b> , 28, 844-850	8	5
301	Coronary Artery Calcium Imaging in the ROBINSCA Trial: Rationale, Design, and Technical Background. <i>Academic Radiology</i> , <b>2018</b> , 25, 118-128	4.3	24

300	New Subsolid Pulmonary Nodules in Lung Cancer Screening: The NELSON Trial. <i>Journal of Thoracic Oncology</i> , <b>2018</b> , 13, 1410-1414	8.9	23
299	Disagreement between splenic switch-off and myocardial T1-mapping after caffeine intake. <i>International Journal of Cardiovascular Imaging</i> , <b>2018</b> , 34, 625-632	2.5	5
298	Effects of Caffeine on Myocardial Blood Flow: A Systematic Review. <i>Nutrients</i> , <b>2018</b> , 10,	6.7	13
297	Disagreement of diameter and volume measurements for pulmonary nodule size estimation in CT lung cancer screening. <i>Thorax</i> , <b>2018</b> , 73, 779-781	7.3	36
296	Appropriate screening intervals in low-dose CT lung cancer screening. <i>Translational Lung Cancer Research</i> , <b>2018</b> , 7, 281-287	4.4	9
295	Pulmonary nodules measurements in CT lung cancer screening. <i>Journal of Thoracic Disease</i> , <b>2018</b> , 10, S2100-S2102	2.6	1
294	Hybrid control algorithm for flexible needle steering: Demonstration in phantom and human cadaver. <i>PLoS ONE</i> , <b>2018</b> , 13, e0210052	3.7	4
293	Relationship between the number of new nodules and lung cancer probability in incidence screening rounds of CT lung cancer screening: The NELSON study. <i>Lung Cancer</i> , <b>2018</b> , 125, 103-108	5.9	26
292	Computational quantitative flow ratio to assess functional severity of coronary artery stenosis. <i>International Journal of Cardiology</i> , <b>2018</b> , 271, 36-41	3.2	11
291	The impact of dose reduction on the quantification of coronary artery calcifications and risk categorization: A systematic review. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2018</b> , 12, 352-363	2.8	15
290	Final screening round of the NELSON lung cancer screening trial: the effect of a 2.5-year screening interval. <i>Thorax</i> , <b>2017</b> , 72, 48-56	7.3	139
289	Genetic loci associated with chronic obstructive pulmonary disease overlap with loci for lung function and pulmonary fibrosis. <i>Nature Genetics</i> , <b>2017</b> , 49, 426-432	36.3	201
288	Analysis of myocardial perfusion parameters in an ex-vivo porcine heart model using third generation dual-source CT. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2017</b> , 11, 141-147	2.8	6
287	Computed tomography (CT)-compatible remote center of motion needle steering robot: Fusing CT images and electromagnetic sensor data. <i>Medical Engineering and Physics</i> , <b>2017</b> , 45, 71-77	2.4	14
286	Optimum Management of Pulmonary Nodules. <i>Radiology</i> , <b>2017</b> , 283, 917-919	20.5	
285	Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT. <i>European Radiology</i> , <b>2017</b> , 27, 3904-3912	8	111
284	Risk stratification based on screening history: the NELSON lung cancer screening study. <i>Thorax</i> , <b>2017</b> , 72, 819-824	7.3	40
283	Quantification of growth patterns of screen-detected lung cancers: The NELSON study. <i>Lung Cancer</i> , <b>2017</b> , 108, 48-54	5.9	22

282	Early lung cancer detection by low-dose CT screening: therapeutic implications. <i>Expert Review of Respiratory Medicine</i> , <b>2017</b> , 11, 89-100	3.8	17
281	Assessment of the link between quantitative biexponential diffusion-weighted imaging and contrast-enhanced MRI in the liver. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 38, 47-53	3.3	4
280	Risk assessment in relation to the detection of small pulmonary nodules. <i>Translational Lung Cancer Research</i> , <b>2017</b> , 6, 35-41	4.4	8
279	EU Policy on Lung Cancer CT Screening 2017. <i>Biomedicine Hub</i> , <b>2017</b> , 2, 154-161	1.3	4
278	Volume versus diameter assessment of small pulmonary nodules in CT lung cancer screening. <i>Translational Lung Cancer Research</i> , <b>2017</b> , 6, 52-61	4.4	34
277	Small pulmonary nodules in baseline and incidence screening rounds of low-dose CT lung cancer screening. <i>Translational Lung Cancer Research</i> , <b>2017</b> , 6, 42-51	4.4	18
276	Coronary artery calcium quantification on first, second and third generation dual source CT: A comparison study. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2017</b> , 11, 444-448	2.8	6
275	Relationship between nodule count and lung cancer probability in baseline CT lung cancer screening: The NELSON study. <i>Lung Cancer</i> , <b>2017</b> , 113, 45-50	5.9	38
274	European position statement on lung cancer screening. <i>Lancet Oncology, The</i> , <b>2017</b> , 18, e754-e766	21.7	279
273	Semi-automated myocardial segmentation of bright-blood multi-gradient echo images improves reproducibility of myocardial contours and T2* determination. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2017</b> , 30, 239-254	2.8	2
272	Validation of myocardial perfusion quantification by dynamic CT in an ex-vivo porcine heart model. <i>International Journal of Cardiovascular Imaging</i> , <b>2017</b> , 33, 1821-1830	2.5	7
271	Dose reduction techniques in coronary calcium scoring: The effect of iterative reconstruction combined with low tube voltage on calcium scores in a thoracic phantom. <i>European Journal of Radiology</i> , <b>2017</b> , 93, 229-235	4.7	10
270	Airway wall thickness on HRCT scans decreases with age and increases with smoking. <i>BMC Pulmonary Medicine</i> , <b>2017</b> , 17, 27	3.5	17
269	Feasibility of spectral shaping for detection and quantification of coronary calcifications in ultra-low dose CT. <i>European Radiology</i> , <b>2017</b> , 27, 2047-2054	8	12
268	Diminished liver microperfusion in Fontan patients: A biexponential DWI study. <i>PLoS ONE</i> , <b>2017</b> , 12, e0133149	3.1	10
267	Preface on "pulmonary nodules special issue for lung cancer". <i>Translational Lung Cancer Research</i> , <b>2017</b> , 6, 1-2	4.4	
266	Multiethnic Exome-Wide Association Study of Subclinical Atherosclerosis. <i>Circulation: Cardiovascular Genetics</i> , <b>2016</b> , 9, 511-520		34
265	Occurrence and lung cancer probability of new solid nodules at incidence screening with low-dose CT: analysis of data from the randomised, controlled NELSON trial. <i>Lancet Oncology, The</i> , <b>2016</b> , 17, 907-916	21.7	130

264	Post-deployment usability evaluation of a radiology workstation. <i>International Journal of Medical Informatics</i> , <b>2016</b> , 85, 28-35	5.3	6
263	Semi-automated quantitative intravoxel incoherent motion analysis and its implementation in breast diffusion-weighted imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 1122-31	5.6	19
262	Inter-observer and inter-examination variability of manual vertebral bone attenuation measurements on computed tomography. <i>European Radiology</i> , <b>2016</b> , 26, 3046-53	8	24
261	Pattern mining of user interaction logs for a post-deployment usability evaluation of a radiology PACS client. <i>International Journal of Medical Informatics</i> , <b>2016</b> , 85, 36-42	5.3	8
260	Contrast-optimized composite image derived from multigradient echo cardiac magnetic resonance imaging improves reproducibility of myocardial contours and T2* measurement. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2016</b> , 29, 17-27	2.8	4
259	Lung Cancer Screening: Evidence, Recommendations, and Controversies. <i>Medical Radiology</i> , <b>2016</b> , 165-181		
258	Smokers with emphysema and small airway disease on computed tomography have lower bone density. <i>International Journal of COPD</i> , <b>2016</b> , 11, 1207-16	3	8
257	Quantitative STIR of muscle for monitoring nerve regeneration. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 44, 401-10	5.6	5
256	Quantitative DWI implemented after DCE-MRI yields increased specificity for BI-RADS 3 and 4 breast lesions. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 44, 1642-1649	5.6	38
255	Follow-up of CT-derived airway wall thickness: Correcting for changes in inspiration level improves reliability. <i>European Journal of Radiology</i> , <b>2016</b> , 85, 2008-2013	4.7	6
254	Caffeine intake inverts the effect of adenosine on myocardial perfusion during stress as measured by T1 mapping. <i>International Journal of Cardiovascular Imaging</i> , <b>2016</b> , 32, 1545-53	2.5	26
253	Interscan variation of semi-automated volumetry of subsolid pulmonary nodules. <i>European Radiology</i> , <b>2015</b> , 25, 1040-7	8	21
252	Pulmonary function and CT biomarkers as risk factors for cardiovascular events in male lung cancer screening participants: the NELSON study. <i>European Radiology</i> , <b>2015</b> , 25, 65-71	8	5
251	Computed tomographic characteristics of interval and post screen carcinomas in lung cancer screening. <i>European Radiology</i> , <b>2015</b> , 25, 81-8	8	55
250	Detection and quantification of the solid component in pulmonary subsolid nodules by semiautomatic segmentation. <i>European Radiology</i> , <b>2015</b> , 25, 488-96	8	41
249	Correction of lumen contrast-enhancement influence on non-calcified coronary atherosclerotic plaque quantification on CT. <i>International Journal of Cardiovascular Imaging</i> , <b>2015</b> , 31, 429-36	2.5	1
248	The impact of radiologists' expertise on screen results decisions in a CT lung cancer screening trial. <i>European Radiology</i> , <b>2015</b> , 25, 792-9	8	13
247	Design and evaluation of a computed tomography (CT)-compatible needle insertion device using an electromagnetic tracking system and CT images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 1845-52	3.9	14

246	Contributions of the European trials (European randomized screening group) in computed tomography lung cancer screening. <i>Journal of Thoracic Imaging</i> , <b>2015</b> , 30, 101-7	5.6	18
245	Automatic classification of pulmonary peri-fissural nodules in computed tomography using an ensemble of 2D views and a convolutional neural network out-of-the-box. <i>Medical Image Analysis</i> , <b>2015</b> , 26, 195-202	15.4	179
244	Effects of ageing and smoking on pulmonary computed tomography scans using parametric response mapping. <i>European Respiratory Journal</i> , <b>2015</b> , 46, 1193-6	13.6	23
243	Does the aortic annulus undergo conformational change throughout the cardiac cycle? A systematic review. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2015</b> , 16, 1307-17	4.1	36
242	Hemodynamic significance of coronary stenosis by vessel attenuation measurement on CT compared with adenosine perfusion MRI. <i>European Journal of Radiology</i> , <b>2015</b> , 84, 92-99	4.7	5
241	Towards a close computed tomography monitoring approach for screen detected subsolid pulmonary nodules?. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 765-73	13.6	65
240	Predicting Human Performance Differences on Multiple Interface Alternatives: KLM, GOMS and CogTool are Unreliable. <i>Procedia Manufacturing</i> , <b>2015</b> , 3, 3725-3731	1.5	4
239	Development of an Ex Vivo, Beating Heart Model for CT Myocardial Perfusion. <i>BioMed Research International</i> , <b>2015</b> , 2015, 412716	3	9
238	Intermodel agreement of myocardial blood flow estimation from stress-rest myocardial perfusion magnetic resonance imaging in patients with coronary artery disease. <i>Investigative Radiology</i> , <b>2015</b> , 50, 275-82	10.1	6
237	Prognostic value of heart valve calcifications for cardiovascular events in a lung cancer screening population. <i>International Journal of Cardiovascular Imaging</i> , <b>2015</b> , 31, 1243-9	2.5	12
236	Parametric response mapping adds value to current computed tomography biomarkers in diagnosing chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2015</b> , 191, 1084-6	10.2	22
235	Serum lipid levels, body mass index, and their role in coronary artery calcification: a polygenic analysis. <i>Circulation: Cardiovascular Genetics</i> , <b>2015</b> , 8, 327-33		16
234	The dream of a one-stop-shop: Meta-analysis on myocardial perfusion CT. <i>European Journal of Radiology</i> , <b>2015</b> , 84, 2411-20	4.7	49
233	Airway wall thickness associated with forced expiratory volume in 1 second decline and development of airflow limitation. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 644-51	13.6	26
232	Quantification of coronary artery calcium in nongated CT to predict cardiovascular events in male lung cancer screening participants: results of the NELSON study. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2015</b> , 9, 50-7	2.8	37
231	Novel genes for airway wall thickness identified with combined genome-wide association and expression analyses. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2015</b> , 191, 547-56	10.2	20
230	Management of subsolid pulmonary nodules in CT lung cancer screening. <i>Journal of Thoracic Disease</i> , <b>2015</b> , 7, 1103-6	2.6	8
229	Discriminating dominant computed tomography phenotypes in smokers without or with mild COPD. <i>Respiratory Medicine</i> , <b>2014</b> , 108, 136-43	4.6	20

228	Effect of b value and pre-admission of contrast on diagnostic accuracy of 1.5-T breast DWI: a systematic review and meta-analysis. <i>European Radiology</i> , <b>2014</b> , 24, 2835-47	8	104
227	Detection of lung cancer through low-dose CT screening (NELSON): a prespecified analysis of screening test performance and interval cancers. <i>Lancet Oncology, The</i> , <b>2014</b> , 15, 1342-50	21.7	201
226	Contribution of CT quantified emphysema, air trapping and airway wall thickness on pulmonary function in male smokers with and without COPD. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , <b>2014</b> , 11, 503-9	2	34
225	Small irregular pulmonary nodules in low-dose CT: observer detection sensitivity and volumetry accuracy. <i>American Journal of Roentgenology</i> , <b>2014</b> , 202, W202-9	5.4	21
224	Automated coronary artery calcification scoring in non-gated chest CT: agreement and reliability. <i>PLoS ONE</i> , <b>2014</b> , 9, e91239	3.7	60
223	Comparison of three software systems for semi-automatic volumetry of pulmonary nodules on baseline and follow-up CT examinations. <i>Acta Radiologica</i> , <b>2014</b> , 55, 691-8	2	31
222	Features of resolving and nonresolving indeterminate pulmonary nodules at follow-up CT: the NELSON study. <i>Radiology</i> , <b>2014</b> , 270, 872-9	20.5	26
221	Lung cancer probability in patients with CT-detected pulmonary nodules: a prespecified analysis of data from the NELSON trial of low-dose CT screening. <i>Lancet Oncology, The</i> , <b>2014</b> , 15, 1332-41	21.7	285
220	Association of chronic obstructive pulmonary disease and smoking status with bone density and vertebral fractures in male lung cancer screening participants. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 2224-9	6.3	29
219	Chronic respiratory symptoms associated with airway wall thickening measured by thin-slice low-dose CT. <i>American Journal of Roentgenology</i> , <b>2014</b> , 203, W383-90	5.4	11
218	Automatic detection of subsolid pulmonary nodules in thoracic computed tomography images. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 374-84	15.4	158
217	Clinical implications of non-steatotic hepatic fat fractions on quantitative diffusion-weighted imaging of the liver. <i>PLoS ONE</i> , <b>2014</b> , 9, e87926	3.7	7
216	Diagnosis of chronic obstructive pulmonary disease in lung cancer screening Computed Tomography scans: independent contribution of emphysema, air trapping and bronchial wall thickening. <i>Respiratory Research</i> , <b>2013</b> , 14, 59	7.3	47
215	Low-dose CT measurements of airway dimensions and emphysema associated with airflow limitation in heavy smokers: a cross sectional study. <i>Respiratory Research</i> , <b>2013</b> , 14, 11	7.3	27
214	Non-calcified coronary atherosclerotic plaque visualization on CT: effects of contrast-enhancement and lipid-content fractions. <i>International Journal of Cardiovascular Imaging</i> , <b>2013</b> , 29, 1137-48	2.5	6
213	Optimisation of volume-doubling time cutoff for fast-growing lung nodules in CT lung cancer screening reduces false-positive referrals. <i>European Radiology</i> , <b>2013</b> , 23, 1836-45	8	56
212	Genome-wide association study of coronary and aortic calcification implicates risk loci for coronary artery disease and myocardial infarction. <i>Atherosclerosis</i> , <b>2013</b> , 228, 400-5	3.1	78
211	Lung cancer screening CT-based prediction of cardiovascular events. <i>JACC: Cardiovascular Imaging</i> , <b>2013</b> , 6, 899-907	8.4	74

210	Prospects for population screening and diagnosis of lung cancer. <i>Lancet, The</i> , <b>2013</b> , 382, 732-41	40	99
209	Sensitivity and accuracy of volumetry of pulmonary nodules on low-dose 16- and 64-row multi-detector CT: an anthropomorphic phantom study. <i>European Radiology</i> , <b>2013</b> , 23, 139-47	8	42
208	Quantitative analysis of coronary plaque composition by dual-source CT in patients with acute non-ST-elevation myocardial infarction compared to patients with stable coronary artery disease correlated with virtual histology intravascular ultrasound. <i>Academic Radiology</i> , <b>2013</b> , 20, 995-1003	4.3	4
207	Characteristics of lung cancers detected by computer tomography screening in the randomized NELSON trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 848-54	10.2	142
206	Slow-growing lung cancer as an emerging entity: from screening to clinical management. <i>European Respiratory Journal</i> , <b>2013</b> , 42, 1706-22	13.6	28
205	Volumetric computed tomography screening for lung cancer: three rounds of the NELSON trial. <i>European Respiratory Journal</i> , <b>2013</b> , 42, 1659-67	13.6	143
204	Computer-aided segmentation and volumetry of artificial ground-glass nodules at chest CT. <i>American Journal of Roentgenology</i> , <b>2013</b> , 201, 295-300	5.4	27
203	Low-dose computed tomography screening for lung cancer: results of the first screening round. <i>Journal of Comparative Effectiveness Research</i> , <b>2013</b> , 2, 433-6	2.1	13
202	European randomized lung cancer screening trials: Post NLST. <i>Journal of Surgical Oncology</i> , <b>2013</b> , 108, 280-6	2.8	75
201	Can nontriggered thoracic CT be used for coronary artery calcium scoring? A phantom study. <i>Medical Physics</i> , <b>2013</b> , 40, 081915	4.4	12
200	Validation and prognosis of coronary artery calcium scoring in nontriggered thoracic computed tomography: systematic review and meta-analysis. <i>Circulation: Cardiovascular Imaging</i> , <b>2013</b> , 6, 514-21	3.9	105
199	Non-solid lung nodules on low-dose computed tomography: comparison of detection rate between 3 visualization techniques. <i>Cancer Imaging</i> , <b>2013</b> , 13, 150-4	5.6	4
198	A practical approach to radiological evaluation of CT lung cancer screening examinations. <i>Cancer Imaging</i> , <b>2013</b> , 13, 391-9	5.6	6
197	Morphological characteristics of potentially malignant pulmonary nodules in high-risk male smokers detected in lung cancer screening trial in Cracow, Poland. <i>Polish Journal of Pathology</i> , <b>2013</b> , 64, 114-20	0.9	1
196	CT air trapping is independently associated with lung function reduction over time. <i>PLoS ONE</i> , <b>2013</b> , 8, e61783	3.7	9
195	Computed tomography structural lung changes in discordant airflow limitation. <i>PLoS ONE</i> , <b>2013</b> , 8, e65137	3.7	14
194	Impact of cardiovascular calcifications on the detrimental effect of continued smoking on cardiovascular risk in male lung cancer screening participants. <i>PLoS ONE</i> , <b>2013</b> , 8, e66484	3.7	8
193	Semi-automatic quantification of subsolid pulmonary nodules: comparison with manual measurements. <i>PLoS ONE</i> , <b>2013</b> , 8, e80249	3.7	18

192	Skin autofluorescence, a non-invasive marker for AGE accumulation, is associated with the degree of atherosclerosis. <i>PLoS ONE</i> , <b>2013</b> , 8, e83084	3.7	42
191	A meta analysis and hierarchical classification of HU-based atherosclerotic plaque characterization criteria. <i>PLoS ONE</i> , <b>2013</b> , 8, e73460	3.7	19
190	Performance of adenosine "stress-only" perfusion MRI in patients without a history of myocardial infarction: a clinical outcome study. <i>International Journal of Cardiovascular Imaging</i> , <b>2012</b> , 28, 109-15	2.5	14
189	Evaluation of newer risk markers for coronary heart disease risk classification: a cohort study. <i>Annals of Internal Medicine</i> , <b>2012</b> , 156, 438-44	8	266
188	Performance of computer-aided detection of pulmonary nodules in low-dose CT: comparison with double reading by nodule volume. <i>European Radiology</i> , <b>2012</b> , 22, 2076-84	8	89
187	Morphological measurements in computed tomography correlate with airflow obstruction in chronic obstructive pulmonary disease: systematic review and meta-analysis. <i>European Radiology</i> , <b>2012</b> , 22, 2085-93	8	46
186	The effect of iterative reconstruction on computed tomography assessment of emphysema, air trapping and airway dimensions. <i>European Radiology</i> , <b>2012</b> , 22, 2103-9	8	51
185	Diagnostic performance of coronary CT angiography for stenosis detection according to calcium score: systematic review and meta-analysis. <i>European Radiology</i> , <b>2012</b> , 22, 2688-98	8	38
184	Coronary CT angiography versus conventional cardiac angiography for therapeutic decision making in patients with high likelihood of coronary artery disease. <i>Radiology</i> , <b>2012</b> , 265, 385-92	20.5	31
183	Dual-energy CT of the heart. <i>American Journal of Roentgenology</i> , <b>2012</b> , 199, S54-63	5.4	77
182	Coronary calcification and the risk of heart failure in the elderly: the Rotterdam Study. <i>JACC: Cardiovascular Imaging</i> , <b>2012</b> , 5, 874-80	8.4	49
181	Small calcified coronary atherosclerotic plaque simulation model: minimal size and attenuation detectable by 64-MDCT and MicroCT. <i>International Journal of Cardiovascular Imaging</i> , <b>2012</b> , 28, 843-53	2.5	13
180	PET and MRI for the evaluation of regional myocardial perfusion and wall thickening after myocardial infarction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2012</b> , 39, 1065-9	8.8	9
179	Implementation of an anonymisation tool for clinical trials using a clinical trial processor integrated with an existing trial patient data information system. <i>European Radiology</i> , <b>2012</b> , 22, 144-51	8	10
178	Effects of microperfusion in hepatic diffusion weighted imaging. <i>European Radiology</i> , <b>2012</b> , 22, 891-9	8	35
177	Systematic error in lung nodule volumetry: effect of iterative reconstruction versus filtered back projection at different CT parameters. <i>American Journal of Roentgenology</i> , <b>2012</b> , 199, 1241-6	5.4	39
176	MR imaging of pulmonary embolism. <i>Radiology</i> , <b>2012</b> , 264, 917; author reply 918	20.5	2
175	Sequential MR imaging of denervated and reinnervated skeletal muscle as correlated to functional outcome. <i>Radiology</i> , <b>2012</b> , 264, 522-30	20.5	25

174	No benefit for consensus double reading at baseline screening for lung cancer with the use of semiautomated volumetry software. <i>Radiology</i> , <b>2012</b> , 262, 320-6	20.5	26
173	CT of coronary heart disease: Part 1, CT of myocardial infarction, ischemia, and viability. <i>American Journal of Roentgenology</i> , <b>2012</b> , 198, 531-47	5.4	39
172	CT-based temperature monitoring during hepatic RF ablation: feasibility in an animal model. <i>International Journal of Hyperthermia</i> , <b>2012</b> , 28, 55-61	3.7	26
171	The role of conventional bronchoscopy in the workup of suspicious CT scan screen-detected pulmonary nodules. <i>Chest</i> , <b>2012</b> , 142, 377-384	5.3	42
170	Visual versus automated evaluation of chest computed tomography for the presence of chronic obstructive pulmonary disease. <i>PLoS ONE</i> , <b>2012</b> , 7, e42227	3.7	15
169	Meningiomas: Determination of Subtypes Using Perfusion Magnetic Resonance Imaging <b>2012</b> , 71-77		
168	Calcium score: a new risk factor for colorectal anastomotic leakage. <i>American Journal of Surgery</i> , <b>2011</b> , 201, 759-65	2.7	29
167	The role of the $^{18}$ F-fluorodeoxyglucose-positron emission tomography scan in the Netherlands Leuven Longkanker screenings Onderzoek lung cancer screening trial. <i>Journal of Thoracic Oncology</i> , <b>2011</b> , 6, 1704-12	8.9	14
166	NELSON lung cancer screening study. <i>Cancer Imaging</i> , <b>2011</b> , 11 Spec No A, S79-84	5.6	108
165	Renal function is related to severity of coronary artery calcification in elderly persons: the Rotterdam study. <i>PLoS ONE</i> , <b>2011</b> , 6, e16738	3.7	16
164	Feasibility of noninvasive temperature assessment during radiofrequency liver ablation on computed tomography. <i>Journal of Computer Assisted Tomography</i> , <b>2011</b> , 35, 356-60	2.2	20
163	Genome-wide association study for coronary artery calcification with follow-up in myocardial infarction. <i>Circulation</i> , <b>2011</b> , 124, 2855-64	16.7	213
162	Computer-aided detection in breast MRI: a systematic review and meta-analysis. <i>European Radiology</i> , <b>2011</b> , 21, 1600-8	8	51
161	Assessment of acute myocardial infarction: current status and recommendations from the North American society for Cardiovascular Imaging and the European Society of Cardiac Radiology. <i>International Journal of Cardiovascular Imaging</i> , <b>2011</b> , 27, 7-24	2.5	46
160	A situational alignment framework for PACS. <i>Journal of Digital Imaging</i> , <b>2011</b> , 24, 979-92	5.3	10
159	Determination of choline concentration in breast lesions: quantitative multivoxel proton MR spectroscopy as a promising noninvasive assessment tool to exclude benign lesions. <i>Radiology</i> , <b>2011</b> , 259, 695-703	20.5	25
158	Identification of chronic obstructive pulmonary disease in lung cancer screening computed tomographic scans. <i>JAMA - Journal of the American Medical Association</i> , <b>2011</b> , 306, 1775-81	27.4	101
157	Intracranial aneurysms in patients with subarachnoid hemorrhage: CT angiography as a primary examination tool for diagnosis--systematic review and meta-analysis. <i>Radiology</i> , <b>2011</b> , 258, 134-45	20.5	157

156	Intake of fish and marine n-3 fatty acids in relation to coronary calcification: the Rotterdam Study. <i>American Journal of Clinical Nutrition</i> , <b>2010</b> , 91, 1317-23	7	27
155	Coronary calcium score improves classification of coronary heart disease risk in the elderly: the Rotterdam study. <i>Journal of the American College of Cardiology</i> , <b>2010</b> , 56, 1407-14	15.1	257
154	The validation of a simulation model incorporating radiation risk for mammography breast cancer screening in women with a hereditary-increased breast cancer risk. <i>European Journal of Cancer</i> , <b>2010</b> , 46, 495-504	7.5	13
153	Comparing coronary artery calcium and thoracic aorta calcium for prediction of all-cause mortality and cardiovascular events on low-dose non-gated computed tomography in a high-risk population of heavy smokers. <i>Atherosclerosis</i> , <b>2010</b> , 209, 455-62	3.1	98
152	Optimal postprocessing of images following cardiac examination using CT and MRI. <i>Imaging in Medicine</i> , <b>2010</b> , 2, 459-474	1	
151	Competency-based (CanMEDS) residency training programme in radiology: systematic design procedure, curriculum and success factors. <i>European Radiology</i> , <b>2010</b> , 20, 967-77	8	9
150	Volumetric measurement of pulmonary nodules at low-dose chest CT: effect of reconstruction setting on measurement variability. <i>European Radiology</i> , <b>2010</b> , 20, 1180-7	8	49
149	Quantitative image analysis for the detection of motion artefacts in coronary artery computed tomography. <i>International Journal of Cardiovascular Imaging</i> , <b>2010</b> , 26, 77-87	2.5	3
148	Coronary calcium mass scores measured by identical 64-slice MDCT scanners are comparable: a cardiac phantom study. <i>International Journal of Cardiovascular Imaging</i> , <b>2010</b> , 26, 89-98	2.5	11
147	Diffusion-weighted imaging of normal fibroglandular breast tissue: influence of microperfusion and fat suppression technique on the apparent diffusion coefficient. <i>NMR in Biomedicine</i> , <b>2010</b> , 23, 399-405	4.4	57
146	Quantitative multivoxel proton chemical shift imaging of the breast. <i>Magnetic Resonance Imaging</i> , <b>2010</b> , 28, 314-9	3.3	21
145	Smooth or attached solid indeterminate nodules detected at baseline CT screening in the NELSON study: cancer risk during 1 year of follow-up. <i>Radiology</i> , <b>2009</b> , 250, 264-72	20.5	108
144	Relation of aortic valve and coronary artery calcium in patients with chronic kidney disease to the stage and etiology of the renal disease. <i>American Journal of Cardiology</i> , <b>2009</b> , 103, 1473-7	3	15
143	Perfusion computed tomography in the acute phase of mild head injury: regional dysfunction and prognostic value. <i>Annals of Neurology</i> , <b>2009</b> , 66, 809-16	9.4	59
142	Long-term reproducibility of phantom signal intensities in nonuniformity corrected STIR-MRI examinations of skeletal muscle. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2009</b> , 22, 201-9	2.8	4
141	Evaluation of global left ventricular function assessment by dual-source computed tomography compared with MRI. <i>European Radiology</i> , <b>2009</b> , 19, 271-7	8	32
140	Non-invasive liver iron concentration measurement by MRI: comparison of two validated protocols. <i>European Journal of Radiology</i> , <b>2009</b> , 71, 116-21	4.7	20
139	Role of baseline nodule density and changes in density and nodule features in the discrimination between benign and malignant solid indeterminate pulmonary nodules. <i>European Journal of Radiology</i> , <b>2009</b> , 70, 492-8	4.7	26

138	Management of lung nodules detected by volume CT scanning. <i>New England Journal of Medicine</i> , <b>2009</b> , 361, 2221-9	59.2	598
137	Accuracy of noninvasive coronary stenosis quantification of different commercially available dedicated software packages. <i>Journal of Computer Assisted Tomography</i> , <b>2009</b> , 33, 505-12	2.2	7
136	Non-Invasive Coronary Imaging. <i>Medical Radiology</i> , <b>2009</b> , 99-203	0.2	
135	The role of coronary artery calcification score in clinical practice. <i>BMC Cardiovascular Disorders</i> , <b>2008</b> , 8, 38	2.3	6
134	Impact of fluoxetine on the human brain in multiple sclerosis as quantified by proton magnetic resonance spectroscopy and diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , <b>2008</b> , 164, 274-82	2.9	38
133	Limited value of shape, margin and CT density in the discrimination between benign and malignant screen detected solid pulmonary nodules of the NELSON trial. <i>European Journal of Radiology</i> , <b>2008</b> , 68, 347-52	4.7	71
132	Coffee consumption and coronary calcification: the Rotterdam Coronary Calcification Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2008</b> , 28, 1018-23	9.4	29
131	Computed tomographic angiography or conventional coronary angiography in therapeutic decision-making. <i>European Heart Journal</i> , <b>2008</b> , 29, 2902-7	9.5	26
130	Effect of nodule characteristics on variability of semiautomated volume measurements in pulmonary nodules detected in a lung cancer screening program. <i>Radiology</i> , <b>2008</b> , 248, 625-31	20.5	65
129	Localization and quantification of regional and segmental air trapping in asthma. <i>Journal of Computer Assisted Tomography</i> , <b>2008</b> , 32, 562-9	2.2	8
128	Late hyperenhancement in gadolinium-enhanced magnetic resonance imaging: comparison of hypertrophic cardiomyopathy patients with and without nonsustained ventricular tachycardia. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 77-83; discussion 85-7	2.5	25
127	The additional value of first pass myocardial perfusion imaging during peak dose of dobutamine stress cardiac MRI for the detection of myocardial ischemia. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 69-76	2.5	24
126	Assessment of global left ventricular functional parameters: analysis of every second short-axis Magnetic Resonance Imaging slices is as accurate as analysis of consecutive slices. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 185-91	2.5	2
125	Coronary artery calcium screening: current status and recommendations from the European Society of Cardiac Radiology and North American Society for Cardiovascular Imaging. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 645-71	2.5	75
124	Perfusion MR imaging for differentiation of benign and malignant meningiomas. <i>Neuroradiology</i> , <b>2008</b> , 50, 525-30	3.2	73
123	Preoperative subtyping of meningiomas by perfusion MR imaging. <i>Neuroradiology</i> , <b>2008</b> , 50, 835-40	3.2	49
122	Non-invasive cardiac assessment in high risk patients (The GROUND study): rationale, objectives and design of a multi-center randomized controlled clinical trial. <i>Trials</i> , <b>2008</b> , 9, 49	2.8	8
121	Measurement of coronary calcium scores by electron beam computed tomography or exercise testing as initial diagnostic tool in low-risk patients with suspected coronary artery disease. <i>European Radiology</i> , <b>2008</b> , 18, 244-52	8	14

120	Quantitative multivoxel 1H MR spectroscopy of the brain in children with acute liver failure. <i>European Radiology</i> , <b>2008</b> , 18, 2601-9	8	16
119	Coronary artery calcium screening: current status and recommendations from the European Society of Cardiac Radiology and North American Society for Cardiovascular Imaging. <i>European Radiology</i> , <b>2008</b> , 18, 2785-807	8	78
118	Measurement of coronary calcium scores or exercise testing as initial screening tool in asymptomatic subjects with ST-T changes on the resting ECG: an evaluation study. <i>BMC Cardiovascular Disorders</i> , <b>2007</b> , 7, 19	2.3	3
117	Use of multidetector computed tomography for the assessment of acute chest pain: a consensus statement of the North American Society of Cardiac Imaging and the European Society of Cardiac Radiology. <i>European Radiology</i> , <b>2007</b> , 17, 2196-207	8	52
116	Coronary fly-through or virtual angiography using dual-source MDCT data. <i>European Radiology</i> , <b>2007</b> , 17, 2852-9	8	14
115	A comparison of echocardiographic and electron beam computed tomographic assessment of aortic valve area in patients with valvular aortic stenosis. <i>International Journal of Cardiovascular Imaging</i> , <b>2007</b> , 23, 781-8	2.5	7
114	Use of multidetector computed tomography for the assessment of acute chest pain: a consensus statement of the North American Society of Cardiac Imaging and the European Society of Cardiac Radiology. <i>International Journal of Cardiovascular Imaging</i> , <b>2007</b> , 23, 415-27	2.5	23
113	Correlation between serum ferritin levels and liver iron concentration determined by MR imaging: impact of hematologic disease and inflammation. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 228-31	3.3	25
112	The female advantage in cardiovascular disease: do vascular beds contribute equally?. <i>American Journal of Epidemiology</i> , <b>2007</b> , 166, 403-12	3.8	70
111	The influence of heart rate, slice thickness, and calcification density on calcium scores using 64-slice multidetector computed tomography: a systematic phantom study. <i>Investigative Radiology</i> , <b>2007</b> , 42, 848-55	10.1	46
110	Lipoprotein-associated phospholipase A2 and coronary calcification. The Rotterdam Coronary Calcification Study. <i>Atherosclerosis</i> , <b>2007</b> , 191, 377-83	3.1	25
109	C-reactive protein is related to extent and progression of coronary and extra-coronary atherosclerosis; results from the Rotterdam study. <i>Atherosclerosis</i> , <b>2007</b> , 195, e195-202	3.1	54
108	Pulmonary nodules detected at lung cancer screening: interobserver variability of semiautomated volume measurements. <i>Radiology</i> , <b>2006</b> , 241, 251-7	20.5	84
107	Commonly used imaging techniques for diagnosis and staging. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 3234-44	2.2	73
106	Nodule management protocol of the NELSON randomised lung cancer screening trial. <i>Lung Cancer</i> , <b>2006</b> , 54, 177-84	5.9	247
105	Multiple voxel 1H MR spectroscopy of phosphorylase-b kinase deficient patients (GSD IXa) showing an accumulation of fat in the liver that resolves with aging. <i>Journal of Hepatology</i> , <b>2006</b> , 45, 851-5	13.4	13
104	Fluoxetine increases cerebral white matter NAA/Cr ratio in patients with multiple sclerosis. <i>Neuroscience Letters</i> , <b>2006</b> , 402, 22-4	3.3	46
103	Assessment of metastatic liver disease in patients with primary extrahepatic tumors by contrast-enhanced sonography versus CT and MRI. <i>World Journal of Gastroenterology</i> , <b>2006</b> , 12, 1699-705 <sup>5.6</sup>		159

102	Initial results on visualization of coronary artery stents at multiple heart rates on a moving heart phantom using 64-MDCT. <i>Journal of Computer Assisted Tomography</i> , <b>2006</b> , 30, 812-7	2.2	17
101	Aortic stiffness is associated with atherosclerosis of the coronary arteries in older adults: the Rotterdam Study. <i>Journal of Hypertension</i> , <b>2006</b> , 24, 2371-6	1.9	83
100	Relationships between brain water content and diffusion tensor imaging parameters (apparent diffusion coefficient and fractional anisotropy) in multiple sclerosis. <i>European Radiology</i> , <b>2006</b> , 16, 898-904	8	12
99	(1)H MR spectroscopy of the brain in multiple sclerosis subtypes with analysis of the metabolite concentrations in gray and white matter: initial findings. <i>European Radiology</i> , <b>2006</b> , 16, 489-95	8	47
98	The association between angiotensin-converting enzyme gene polymorphism and coronary calcification. The Rotterdam Coronary Calcification Study. <i>Atherosclerosis</i> , <b>2005</b> , 182, 169-73	3.1	17
97	Correlation of proton MR spectroscopy and diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , <b>2005</b> , 23, 851-8	3.3	24
96	Influence of scoring parameter settings on Agatston and volume scores for coronary calcification. <i>European Radiology</i> , <b>2005</b> , 15, 102-10	8	26
95	Visual stimulation, 1H MR spectroscopy and fMRI of the human visual pathways. <i>European Radiology</i> , <b>2005</b> , 15, 47-52	8	26
94	Study on motion artifacts in coronary arteries with an anthropomorphic moving heart phantom on an ECG-gated multidetector computed tomography unit. <i>European Radiology</i> , <b>2005</b> , 15, 995-1007	8	28
93	1H Magnetic resonance spectroscopy of the internal capsule in human brain: a feasibility study to detect lactate following contralateral motor activity. <i>European Radiology</i> , <b>2005</b> , 15, 1349-52	8	3
92	Coronary artery calcification score by multislice computed tomography predicts the outcome of dobutamine cardiovascular magnetic resonance imaging. <i>European Radiology</i> , <b>2005</b> , 15, 1128-34	8	14
91	Analysis of the human brain in primary progressive multiple sclerosis with mapping of the spatial distributions using 1H MR spectroscopy and diffusion tensor imaging. <i>European Radiology</i> , <b>2005</b> , 15, 1686-93	8	26
90	1H chemical shift imaging, MRI, and diffusion-weighted imaging in vanishing white matter disease. <i>European Radiology</i> , <b>2005</b> , 15, 2377-9	8	12
89	New MR Imaging Methods: The Latest Clinical Applications. <i>Imaging Decisions (Berlin, Germany)</i> , <b>2005</b> , 9, 1-1		
88	Comparison of 99mTc-sestamibi/18FDG DISA SPECT with PET for the detection of viability in patients with coronary artery disease and left ventricular dysfunction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2005</b> , 32, 972-9	8.8	23
87	Coronary calcification improves cardiovascular risk prediction in the elderly. <i>Circulation</i> , <b>2005</b> , 112, 572-716.7	4.18	
86	Risk factors for coronary calcification in older subjects. The Rotterdam Coronary Calcification Study. <i>European Heart Journal</i> , <b>2004</b> , 25, 48-55	9.5	63
85	Alcohol consumption and coronary calcification in a general population. <i>Archives of Internal Medicine</i> , <b>2004</b> , 164, 2355-60		39

84	Cerebral white matter lesions and the risk of dementia. <i>Archives of Neurology</i> , <b>2004</b> , 61, 1531-4		382
83	The association between blood pressure, hypertension, and cerebral white matter lesions: cardiovascular determinants of dementia study. <i>Hypertension</i> , <b>2004</b> , 44, 625-30	8.5	239
82	1H MR chemical shift imaging detection of phenylalanine in patients suffering from phenylketonuria (PKU). <i>European Radiology</i> , <b>2004</b> , 14, 1895-900	8	13
81	Dobutamine stress MRI. Part I. Safety and feasibility of dobutamine cardiovascular magnetic resonance in patients suspected of myocardial ischemia. <i>European Radiology</i> , <b>2004</b> , 14, 1823-8	8	49
80	Dobutamine stress MRI. Part II. Risk stratification with dobutamine cardiovascular magnetic resonance in patients suspected of myocardial ischemia. <i>European Radiology</i> , <b>2004</b> , 14, 2046-52	8	49
79	Detection, visualization and evaluation of anomalous coronary anatomy on 16-slice multidetector-row CT. <i>European Radiology</i> , <b>2004</b> , 14, 2163-71	8	82
78	Non-invasive assessment of coronary calcification. <i>European Journal of Epidemiology</i> , <b>2004</b> , 19, 1063-72	12.1	7
77	The association of Rose questionnaire angina pectoris and coronary calcification in a general population: the Rotterdam Coronary Calcification Study. <i>Annals of Epidemiology</i> , <b>2004</b> , 14, 431-6	6.4	36
76	Multi-Slice Computed Tomography Technical Principles, Clinical Application and Future Perspective. <i>Medical Radiology</i> , <b>2004</b> , 87-115	0.2	1
75	Brain changes with aging: MR spectroscopy at supraventricular plane shows differences between women and men. <i>Radiology</i> , <b>2003</b> , 226, 889-96	20.5	40
74	Incidence and risk factors of silent brain infarcts in the population-based Rotterdam Scan Study. <i>Stroke</i> , <b>2003</b> , 34, 392-6	6.7	313
73	Coronary calcification at electron-beam CT: effect of section thickness on calcium scoring in vitro and in vivo. <i>Radiology</i> , <b>2003</b> , 229, 520-5	20.5	45
72	Gadobenate dimeglumine-enhanced MRI of the breast: analysis of dose response and comparison with gadopentetate dimeglumine. <i>American Journal of Roentgenology</i> , <b>2003</b> , 181, 663-76	5.4	62
71	Gadobenate dimeglumine-enhanced magnetic resonance angiography of the pelvic arteries. <i>Investigative Radiology</i> , <b>2003</b> , 38, 504-15	10.1	15
70	Noninvasive coronary imaging: CT versus MR. <i>Herz</i> , <b>2003</b> , 28, 143-9	2.6	5
69	MRI for the diagnosis of pulmonary embolism. <i>Journal of Magnetic Resonance Imaging</i> , <b>2003</b> , 18, 627-40	5.6	60
68	Association between blood pressure levels over time and brain atrophy in the elderly. <i>Neurobiology of Aging</i> , <b>2003</b> , 24, 307-13	5.6	97
67	Dobutamine cardiovascular magnetic resonance for the detection of myocardial ischemia with the use of myocardial tagging. <i>Circulation</i> , <b>2003</b> , 107, 1592-7	16.7	141

66	Coronary artery imaging with multidetector CT: visualization issues. <i>Radiographics</i> , <b>2003</b> , 23, e16	5.4	46
65	Three-dimensional magnetic resonance coronary angiography using a new blood pool contrast agent: initial experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2002</b> , 4, 273-82	6.9	9
64	Comparison of coronary imaging between magnetic resonance imaging and electron beam computed tomography. <i>American Journal of Cardiology</i> , <b>2002</b> , 90, 58-63	3	17
63	Noninvasive coronary angioscopy using electron beam computed tomography and multidetector computed tomography. <i>American Journal of Cardiology</i> , <b>2002</b> , 90, 998-1002	3	9
62	Homocysteine, silent brain infarcts, and white matter lesions: The Rotterdam Scan Study. <i>Annals of Neurology</i> , <b>2002</b> , 51, 285-9	9.4	275
61	Periventricular cerebral white matter lesions predict rate of cognitive decline. <i>Annals of Neurology</i> , <b>2002</b> , 52, 335-41	9.4	334
60	Pulmonary Embolism: The Discussions Continue. <i>Imaging Decisions (Berlin, Germany)</i> , <b>2002</b> , 6, 2-2		
59	<sup>1</sup> H chemical shift imaging characterization of human brain tumor and edema. <i>European Radiology</i> , <b>2002</b> , 12, 2056-61	8	44
58	Stroke is associated with coronary calcification as detected by electron-beam CT: the Rotterdam Coronary Calcification Study. <i>Stroke</i> , <b>2002</b> , 33, 462-5	6.7	90
57	Prevalence and risk factors of silent brain infarcts in the population-based Rotterdam Scan Study. <i>Stroke</i> , <b>2002</b> , 33, 21-5	6.7	369
56	The association between coronary calcification assessed by electron beam computed tomography and measures of extracoronary atherosclerosis: the Rotterdam Coronary Calcification Study. <i>Journal of the American College of Cardiology</i> , <b>2002</b> , 39, 1745-51	15.1	134
55	Characterization of liver lesions with mangafodipir trisodium-enhanced MR imaging: multicenter study comparing MR and dual-phase spiral CT. <i>Radiology</i> , <b>2002</b> , 223, 517-24	20.5	89
54	Comparison of contrast-enhanced magnetic resonance angiography and conventional pulmonary angiography for the diagnosis of pulmonary embolism: a prospective study. <i>Lancet, The</i> , <b>2002</b> , 359, 1643-7	4.9	241
53	Should patients be managed for suspected pulmonary embolism on the basis of pretest clinical probability and D-dimer results?. <i>Annals of Internal Medicine</i> , <b>2002</b> , 136, 781	8	2
52	Serum carotenoids and cerebral white matter lesions: the Rotterdam scan study. <i>Journal of the American Geriatrics Society</i> , <b>2001</b> , 49, 642-6	5.6	20
51	Lung scintigraphy and helical computed tomography for the diagnosis of pulmonary embolism: a meta-analysis. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2001</b> , 7, 87-92	3.3	46
50	Four-dimensional cardiac imaging with multislice computed tomography. <i>Circulation</i> , <b>2001</b> , 103, E62	16.7	13
49	Clinical validity of a normal pulmonary angiogram in patients with suspected pulmonary embolism--a critical review. <i>Clinical Radiology</i> , <b>2001</b> , 56, 838-42	2.9	137

48	Three-dimensional volume rendered CT for preparation and evaluation of endovascular treatment of popliteal aneurysms. <i>International Congress Series</i> , <b>2001</b> , 1230, 475-482		
47	Coronary angiography with multi-slice computed tomography. <i>Lancet, The</i> , <b>2001</b> , 357, 599-603	40	576
46	Primary leiomyosarcoma of the adrenal gland. <i>Sarcoma</i> , <b>2001</b> , 5, 95-9	3.1	18
45	Comparison of a Quantitative Latex and a Quantitative ELISA Plasma D-Dimer Assay in the Exclusion of Segmental and Subsegmental Pulmonary Embolism. <i>Thrombosis and Haemostasis</i> , <b>2001</b> , 86, 1580-1582	7	9
44	Human brain chemical shift imaging at age 60 to 90: analysis of the causes of the observed sex differences in brain metabolites. <i>Investigative Radiology</i> , <b>2001</b> , 36, 597-603	10.1	6
43	Aortic atherosclerosis at middle age predicts cerebral white matter lesions in the elderly. <i>Stroke</i> , <b>2000</b> , 31, 425-9	6.7	96
42	Magnetic resonance angiography of a pulmonary artery stenosis late after cardiac surgery. <i>Circulation</i> , <b>2000</b> , 102, E71-2	16.7	1
41	Cerebral white matter lesions and depressive symptoms in elderly adults. <i>Archives of General Psychiatry</i> , <b>2000</b> , 57, 1071-6		333
40	Cerebral white matter lesions and cognitive function: The Rotterdam scan study. <i>Annals of Neurology</i> , <b>2000</b> , 47, 145-151	9.4	769
39	First experiences in screening women at high risk for breast cancer with MR imaging. <i>Breast Cancer Research and Treatment</i> , <b>2000</b> , 63, 53-60	4.4	196
38	Rapid ELISA Assay for Plasma D-Dimer in the Diagnosis of Segmental and Subsegmental Pulmonary Embolism. <i>Thrombosis and Haemostasis</i> , <b>2000</b> , 84, 156-159	7	50
37	Coronary artery fly-through using electron beam computed tomography. <i>Circulation</i> , <b>2000</b> , 102, E6-10	16.7	16
36	MR coronary angiography with breath-hold targeted volumes: preliminary clinical results. <i>Radiology</i> , <b>2000</b> , 217, 270-7	20.5	91
35	MR imaging-guided sonography followed by fine-needle aspiration cytology in occult carcinoma of the breast. <i>American Journal of Roentgenology</i> , <b>2000</b> , 174, 1079-84	5.4	55
34	Stentocarditis. <i>Circulation</i> , <b>2000</b> , 101, E188-90	16.7	16
33	Decreased energy and phosphorylation status in the liver of lung cancer patients with weight loss. <i>Journal of Hepatology</i> , <b>2000</b> , 32, 887-92	13.4	19
32	Cerebral white matter lesions and cognitive function: the Rotterdam Scan Study. <i>Annals of Neurology</i> , <b>2000</b> , 47, 145-51	9.4	266
31	Breath-hold MR cholangiopancreatography with three-dimensional, segmented, echo-planar imaging and volume rendering. <i>Radiology</i> , <b>1999</b> , 210, 247-52	20.5	35

30	Intravenous coronary angiography using electron beam computed tomography. <i>Progress in Cardiovascular Diseases</i> , <b>1999</b> , 42, 139-48	8.5	16
29	Basic principles of magnetic resonance imaging. <i>Progress in Cardiovascular Diseases</i> , <b>1999</b> , 42, 149-56	8.5	28
28	Magnetic resonance imaging of the coronary arteries: techniques and results. <i>Progress in Cardiovascular Diseases</i> , <b>1999</b> , 42, 157-66	8.5	12
27	A follow-up study of blood pressure and cerebral white matter lesions. <i>Annals of Neurology</i> , <b>1999</b> , 46, 827-833	9.4	149
26	Magnetic resonance imaging of the coronary arteries: imaging planes and resulting anatomy in two-dimensional imaging. <i>Coronary Artery Disease</i> , <b>1999</b> , 10, 525-31	1.4	0
25	A follow-up study of blood pressure and cerebral white matter lesions. <i>Annals of Neurology</i> , <b>1999</b> , 46, 827-33	9.4	47
24	Gradient echo MRI for measurement of the pulmonary autograft diameter after transplantation to the aortic root: validation and comparison with ultrasound. <i>Journal of Magnetic Resonance Imaging</i> , <b>1998</b> , 8, 1015-21	5.6	1
23	Understanding the discrepancies between 31P MR spectroscopy assessed liver metabolite concentrations from different institutions. <i>Magnetic Resonance Imaging</i> , <b>1998</b> , 16, 205-11	3.3	28
22	1H MR spectroscopy monitoring of changes in choline peak area and line shape after Gd-contrast administration. <i>Magnetic Resonance Imaging</i> , <b>1998</b> , 16, 1273-80	3.3	38
21	Intravenous coronary angiography by electron beam computed tomography: a clinical evaluation. <i>Circulation</i> , <b>1998</b> , 98, 2509-12	16.7	108
20	CT-guided bone biopsy in a cancer center: experience with a new apple corer-shaped device. <i>Journal of Computer Assisted Tomography</i> , <b>1998</b> , 22, 276-81	2.2	4
19	Gd-enhanced MR imaging of brain metastases: contrast as a function of dose and lesion size. <i>Magnetic Resonance Imaging</i> , <b>1997</b> , 15, 535-41	3.3	37
18	1H chemical shift imaging reveals loss of brain tumor choline signal after administration of Gd-contrast. <i>Magnetic Resonance in Medicine</i> , <b>1997</b> , 37, 222-5	4.4	118
17	Phosphorus-31 chemical shift imaging of metastatic tumors located in the spine region. <i>Investigative Radiology</i> , <b>1997</b> , 32, 344-50	10.1	4
16	Self-expanding metal stents for palliative treatment of superior vena caval syndrome. <i>CardioVascular and Interventional Radiology</i> , <b>1996</b> , 19, 146-51	2.7	39
15	MR lesion detection in a breast cancer population. <i>Journal of Magnetic Resonance Imaging</i> , <b>1996</b> , 6, 849-54	5.6	20
14	1H MR spectroscopy detection of lipids and lactate in metastatic brain tumors. <i>NMR in Biomedicine</i> , <b>1996</b> , 9, 65-71	4.4	72
13	Biopsy of nonpalpable cervical lymph nodes: selection criteria for ultrasound-guided biopsy in patients with head and neck squamous cell carcinoma. <i>Ultrasound in Medicine and Biology</i> , <b>1996</b> , 22, 413-9	3.5	13

12	Hydrogen magnetic resonance spectroscopy follow-up after radiation therapy of human brain cancer. Unexpected inverse correlation between the changes in tumor choline level and post-gadolinium magnetic resonance imaging contrast. <i>Investigative Radiology</i> , <b>1995</b> , 30, 738-44	10.1	29
11	<b>1H MR spectroscopy in patients with metastatic brain tumors: a multicenter study. <i>Magnetic Resonance in Medicine</i>, <b>1995</b>, 33, 818-26</b>	4.4	106
10	31P magnetic resonance spectroscopy as predictor of clinical response in human extremity sarcomas treated by single dose TNF-alpha + melphalan isolated limb perfusion. <i>NMR in Biomedicine</i> , <b>1995</b> , 8, 215-24	4.4	38
9	Correlation between choline level and Gd-DTPA enhancement in patients with brain metastases of mammary carcinoma. <i>Magnetic Resonance in Medicine</i> , <b>1994</b> , 32, 549-55	4.4	41
8	Renal masses: value of duplex Doppler ultrasound in the differential diagnosis. <i>Journal of Urology</i> , <b>1994</b> , 151, 326-8	2.5	7
7	Cost-effectiveness Analysis of Various Strategies in the Diagnostic Management of Pulmonary Embolism. <i>Archives of Internal Medicine</i> , <b>1993</b> , 153, 947		38
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