Matthijs Oudkerk

List of Publications by Year
in descending order

381	24,880	10351 72	9311 143
papers	citations	h-index	g-index

387	387	387	22405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance of a deep learning-based lung nodule detection system as an alternative reader in a Chinese lung cancer screening program. European Journal of Radiology, 2022, 146, 110068.	1.2	14
2	Early detection of obstructive coronary artery disease in the asymptomatic high-risk population: objectives and study design of the EARLY-SYNERGY trial. American Heart Journal, 2022, 246, 166-177.	1.2	4
3	Outstanding negative prediction performance of solid pulmonary nodule volume AI for ultra-LDCT baseline lung cancer screening risk stratification. Lung Cancer, 2022, 165, 133-140.	0.9	16
4	AI-Driven Model for Automatic Emphysema Detection in Low-Dose Computed Tomography Using Disease-Specific Augmentation. Journal of Digital Imaging, 2022, 35, 538-550.	1.6	3
5	Lowâ€dose computed tomography lung cancer screening: Clinical evidence and implementation research. Journal of Internal Medicine, 2022, 292, 68-80.	2.7	21
6	Facilitating standardized COVID-19 suspicion prediction based on computed tomography radiomics in a multi-demographic setting. European Radiology, 2022, 32, 6384-6396.	2.3	4
7	T2* assessment of the three coronary artery territories of the left ventricular wall by different monoexponential truncation methods. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, , 1.	1.1	0
8	Breast Tumor Identification in Ultrafast MRI Using Temporal and Spatial Information. Cancers, 2022, 14, 2042.	1.7	6
9	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. BMJ Open, 2022, 12, e055123.	0.8	2
10	Using deep learning to safely exclude lesions with only ultrafast breast MRI to shorten acquisition and reading time. European Radiology, 2022, 32, 8706-8715.	2.3	14
11	Screening for coronary artery calcium in a high-risk population: the ROBINSCA trial. European Journal of Preventive Cardiology, 2021, 28, 1155-1159.	0.8	6
12	Computed Tomography Screening for Early Lung Cancer, COPD and Cardiovascular Disease in Shanghai: Rationale and Design of a Population-based Comparative Study. Academic Radiology, 2021, 28, 36-45.	1.3	17
13	High-pitch dual-source CT for coronary artery calcium scoring: A head-to-head comparison of non-triggered chest versus triggered cardiac acquisition. Journal of Cardiovascular Computed Tomography, 2021, 15, 65-72.	0.7	16
14	Lung cancer LDCT screening and mortality reduction â€" evidence, pitfalls and future perspectives. Nature Reviews Clinical Oncology, 2021, 18, 135-151.	12.5	234
15	Evaluation of a novel deep learningâ€"based classifier for perifissural nodules. European Radiology, 2021, 31, 4023-4030.	2.3	0
16	Deep convolutional neural networks for multiplanar lung nodule detection: Improvement in small nodule identification. Medical Physics, 2021, 48, 733-744.	1.6	23
17	Coronary Artery Calcium and Cognitive Function in Dutch Adults: Crossâ€Sectional Results of the Populationâ€Based ImaLife Study. Journal of the American Heart Association, 2021, 10, e018172.	1.6	5
18	Lung cancer prediction by Deep Learning to identify benign lung nodules. Lung Cancer, 2021, 154, 1-4.	0.9	76

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19	COVID-19: angiotensin II in development of lung immunothrombosis and vasculitis mimics. Lancet Rheumatology, The, 2021, 3, e325-e326.	2.2	3
20	A contrast-enhanced-CT-based classification tree model for classifying malignancy of solid lung tumors in a Chinese clinical population. Journal of Thoracic Disease, 2021, 13, 4407-4417.	0.6	1
21	Cardiovascular Risk Factors and Coronary Calcification in a Middle-aged Dutch Population. Journal of Thoracic Imaging, 2021, 36, 174-180.	0.8	9
22	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. European Journal of Epidemiology, 2020, 35, 75-86.	2.5	32
23	New Fissure-Attached Nodules in Lung Cancer Screening: A Brief Report From The NELSON Study. Journal of Thoracic Oncology, 2020, 15, 125-129.	0.5	15
24	Early detection of heart function abnormality by native T1: a comparison of two T1 quantification methods. European Radiology, 2020, 30, 652-662.	2.3	4
25	Automatic Pulmonary Nodule Detection in CT Scans Using Convolutional Neural Networks Based on Maximum Intensity Projection. IEEE Transactions on Medical Imaging, 2020, 39, 797-805.	5.4	105
26	Potential for dose reduction in CT emphysema densitometry with post-scan noise reduction: a phantom study. British Journal of Radiology, 2020, 93, 20181019.	1.0	11
27	Assessment of Dynamic Change of Coronary Artery Geometry and Its Relationship to Coronary Artery Disease, Based on Coronary CT Angiography. Journal of Digital Imaging, 2020, 33, 480-489.	1.6	5
28	Cardiac T₂* mapping: Techniques and clinical applications. Journal of Magnetic Resonance Imaging, 2020, 52, 1340-1351.	1.9	46
29	<scp>d</scp>-Dimer and COVID-19. Radiology, 2020, 297, E343-E344.	3.6	4
30	Design, Implementation, and Validation of a Pulsatile Heart Phantom Pump. Journal of Digital Imaging, 2020, 33, 1301-1305.	1.6	2
31	The vascular nature of COVID-19. British Journal of Radiology, 2020, 93, 20200718.	1.0	11
32	Optimization of CT windowing for diagnosing invasiveness of adenocarcinoma presenting as sub-solid nodules. European Journal of Radiology, 2020, 128, 108981.	1.2	2
33	Lung cancer occurrence attributable to passive smoking among never smokers in China: a systematic review and meta-analysis. Translational Lung Cancer Research, 2020, 9, 204-217.	1.3	30
34	Deep learning for automated exclusion of cardiac CT examinations negative for coronary artery calcium. European Journal of Radiology, 2020, 129, 109114.	1.2	16
35	The International Association for the Study of Lung Cancer Early Lung Imaging Confederation. JCO Clinical Cancer Informatics, 2020, 4, 89-99.	1.0	13
36	Recommendations for Implementing Lung Cancer Screening with Low-Dose Computed Tomography in Europe. Cancers, 2020, 12, 1672.	1.7	50

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37	Screening for cardiovascular disease risk using traditional risk factor assessment or coronary artery calcium scoring: the ROBINSCA trial. European Heart Journal Cardiovascular Imaging, 2020, 21, 1216-1224.	0.5	43
38	Deep learning-based pulmonary nodule detection: Effect of slab thickness in maximum intensity projections at the nodule candidate detection stage. Computer Methods and Programs in Biomedicine, 2020, 196, 105620.	2.6	16
39	The Relationship of Coronary Artery Calcium and Clinical Coronary Artery Disease with Cognitive Function: A Systematic Review and Meta-Analysis. Journal of Atherosclerosis and Thrombosis, 2020, 27, 934-958.	0.9	13
40	Less Is More in Lung Cancer Risk Prediction Models. JAMA Network Open, 2020, 3, e1921492.	2.8	1
41	Reduced Lung-Cancer Mortality with Volume CT Screening in a Randomized Trial. New England Journal of Medicine, 2020, 382, 503-513.	13.9	1,836
42	Development and application of artificial intelligence in cardiac imaging. British Journal of Radiology, 2020, 93, 20190812.	1.0	35
43	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.	3.6	261
44	A Subsolid Nodules Imaging Reporting System (SSN-IRS) for Classifying 3 Subtypes of Pulmonary Adenocarcinoma. Clinical Lung Cancer, 2020, 21, 314-325.e4.	1.1	7
45	Clinical characteristics and work-up of small to intermediate-sized pulmonary nodules in a Chinese dedicated cancer hospital. Cancer Biology and Medicine, 2020, 17, 199-207.	1.4	10
46	Imaging patients with stable chest pain special feature: introductory editorial. British Journal of Radiology, 2020, 93, 20209005.	1.0	2
47	T1 reactivity as an imaging biomarker in myocardial tissue characterization discriminating normal, ischemic and infarcted myocardium. International Journal of Cardiovascular Imaging, 2019, 35, 1319-1325.	0.7	16
48	An Update on the European Lung Cancer Screening Trials and Comparison of Lung Cancer Screening Recommendations in Europe. Journal of Thoracic Imaging, 2019, 34, 65-71.	0.8	16
49	Robotic versus Freehand Needle Positioning in CT-guided Ablation of Liver Tumors: A Randomized Controlled Trial. Radiology, 2019, 290, 826-832.	3.6	39
50	Intermodel disagreement of myocardial blood flow estimation from dynamic CT perfusion imaging. European Journal of Radiology, 2019, 110, 175-180.	1.2	15
51	Methods of computed tomography screening and management of lung cancer in Tianjin: design of a population-based cohort study. Cancer Biology and Medicine, 2019, 16, 181.	1.4	12
52	Automated plaque analysis for the prognostication of major adverse cardiac events. European Journal of Radiology, 2019, 116, 76-83.	1.2	41
53	Probability of cancer in lung nodules using sequential volumetric screening up to 12 months: the UKLS trial. Thorax, 2019, 74, 761-767.	2.7	28
54	Impact of a cardiovascular disease risk screening result on preventive behaviour in asymptomatic participants of the ROBINSCA trial. European Journal of Preventive Cardiology, 2019, 26, 1313-1322.	0.8	24

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55	Agreement of 2D transthoracic echocardiography with cardiovascular magnetic resonance imaging after ST-elevation myocardial infarction. European Journal of Radiology, 2019, 114, 6-13.	1.2	4
56	Convolutional neural network to predict the local recurrence of giant cell tumor of bone after curettage based on pre-surgery magnetic resonance images. European Radiology, 2019, 29, 5441-5451.	2.3	30
57	Screening for Early Lung Cancer, Chronic Obstructive Pulmonary Disease, and Cardiovascular Disease (the Big-3) Using Low-dose Chest Computed Tomography. Journal of Thoracic Imaging, 2019, 34, 160-169.	0.8	34
58	Comparison of Veterans Affairs, Mayo, Brock classification models and radiologist diagnosis for classifying the malignancy of pulmonary nodules in Chinese clinical population. Translational Lung Cancer Research, 2019, 8, 605-613.	1.3	17
59	Deep learning to stratify lung nodules on annual follow-up CT. The Lancet Digital Health, 2019, 1, e324-e325.	5.9	1
60	Persisting new nodules in incidence rounds of the NELSON CT lung cancer screening study. Thorax, 2019, 74, 247-253.	2.7	18
61	Iodine quantification based on rest / stress perfusion dual energy CT to differentiate ischemic, infarcted and normal myocardium. European Journal of Radiology, 2019, 112, 136-143.	1.2	11
62	Feasibility of extracellular volume quantification using dual-energy CT. Journal of Cardiovascular Computed Tomography, 2019, 13, 81-84.	0.7	26
63	Low CT temporal sampling rates result in a substantial underestimation of myocardial blood flow measurements. International Journal of Cardiovascular Imaging, 2019, 35, 539-547.	0.7	11
64	Low-dose CT for lung cancer screening â€“ Authors' reply. Lancet Oncology, The, 2018, 19, e135-e136.	5.1	3
65	Characteristics of new solid nodules detected in incidence screening rounds of low-dose CT lung cancer screening: the NELSON study. Thorax, 2018, 73, 741-747.	2.7	35
66	EUPSâ€”argues that lung cancer screening should be implemented in 18 months. British Journal of Radiology, 2018, 91, 20180243.	1.0	5
67	High-pitch versus sequential mode for coronary calcium in individuals with a high heart rate: Potential for dose reduction. Journal of Cardiovascular Computed Tomography, 2018, 12, 298-304.	0.7	10
68	Imaging the myocardial ischemic cascade. International Journal of Cardiovascular Imaging, 2018, 34, 1249-1263.	0.7	34
69	The relationship between applied energy and ablation zone volume in patients with hepatocellular carcinoma and colorectal liver metastasis. European Radiology, 2018, 28, 3228-3236.	2.3	35
70	Management of baseline and new sub-solid nodules in CT lung cancer screening. Expert Review of Respiratory Medicine, 2018, 12, 1-3.	1.0	12
71	Influence of lung nodule margin on volume- and diameter-based reader variability in CT lung cancer screening. British Journal of Radiology, 2018, 91, 20170405.	1.0	31
72	Accurate late gadolinium enhancement prediction by early T1- based quantitative synthetic mapping. European Radiology, 2018, 28, 844-850.	2.3	6

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73	Coronary Artery Calcium Imaging in the ROBINSCA Trial. Academic Radiology, 2018, 25, 118-128.	1.3	36
74	Disagreement of diameter and volume measurements for pulmonary nodule size estimation in CT lung cancer screening. Thorax, 2018, 73, 779-781.	2.7	62
75	Appropriate screening intervals in low-dose CT lung cancer screening. Translational Lung Cancer Research, 2018, 7, 281-287.	1.3	18
76	Pulmonary nodules measurements in CT lung cancer screening. Journal of Thoracic Disease, 2018, 10, S2100-S2102.	0.6	2
77	Hybrid control algorithm for flexible needle steering: Demonstration in phantom and human cadaver. PLoS ONE, 2018, 13, e0210052.	1.1	5
78	Relationship between the number of new nodules and lung cancer probability in incidence screening rounds of CT lung cancer screening: The NELSON study. Lung Cancer, 2018, 125, 103-108.	0.9	39
79	Computational quantitative flow ratio to assess functional severity of coronary artery stenosis. International Journal of Cardiology, 2018, 271, 36-41.	0.8	19
80	The impact of dose reduction on the quantification of coronary artery calcifications and risk categorization: A systematic review. Journal of Cardiovascular Computed Tomography, 2018, 12, 352-363.	0.7	21
81	New Subsolid Pulmonary Nodules in Lung Cancer Screening: The NELSON Trial. Journal of Thoracic Oncology, 2018, 13, 1410-1414.	0.5	42
82	Disagreement between splenic switch-off and myocardial T1-mapping after caffeine intake. International Journal of Cardiovascular Imaging, 2018, 34, 625-632.	0.7	11
83	Effects of Caffeine on Myocardial Blood Flow: A Systematic Review. Nutrients, 2018, 10, 1083.	1.7	21
84	Final screening round of the NELSON lung cancer screening trial: the effect of a 2.5-year screening interval. Thorax, 2017, 72, 48-56.	2.7	212
85	Genetic loci associated with chronic obstructive pulmonary disease overlap with loci for lung function and pulmonary fibrosis. Nature Genetics, 2017, 49, 426-432.	9.4	306
86	Analysis of myocardial perfusion parameters in an ex-vivo porcine heart model using third generation dual-source CT. Journal of Cardiovascular Computed Tomography, 2017, 11, 141-147.	0.7	8
87	Computed tomography (CT)-compatible remote center of motion needle steering robot: Fusing CT images and electromagnetic sensor data. Medical Engineering and Physics, 2017, 45, 71-77.	0.8	22
88	Optimum Management of Pulmonary Nodules. Radiology, 2017, 283, 917-919.	3.6	0
89	P1.03-042 Nodule Size is Poorly Represented by Nodule Diameter in Low-Dose CT Lung Cancer Screening. Journal of Thoracic Oncology, 2017, 12, S567-S568.	0.5	1
90	Accuracy of iodine quantification using dual energy CT in latest generation dual source and dual layer CT. European Radiology, 2017, 27, 3904-3912.	2.3	150

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91	Risk stratification based on screening history: the NELSON lung cancer screening study. Thorax, 2017, 72, 819-824.	2.7	54
92	Quantification of growth patterns of screen-detected lung cancers: The NELSON study. Lung Cancer, 2017, 108, 48-54.	0.9	31
93	Early lung cancer detection by low-dose CT screening: therapeutic implications. Expert Review of Respiratory Medicine, 2017, 11, 89-100.	1.0	26
94	Assessment of the link between quantitative biexponential diffusion-weighted imaging and contrast-enhanced MRI in the liver. Magnetic Resonance Imaging, 2017, 38, 47-53.	1.0	5
95	Coronary artery calcium quantification on first, second and third generation dual source CT: A comparison study. Journal of Cardiovascular Computed Tomography, 2017, 11, 444-448.	0.7	7
96	Relationship between nodule count and lung cancer probability in baseline CT lung cancer screening: The NELSON study. Lung Cancer, 2017, 113, 45-50.	0.9	64
97	European position statement on lung cancer screening. Lancet Oncology, The, 2017, 18, e754-e766.	5.1	428
98	Semi-automated myocardial segmentation of brightÂblood multi-gradient echo images improves reproducibility of myocardial contours and T2* determination. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 239-254.	1.1	3
99	Validation of myocardial perfusion quantification by dynamic CT in an ex-vivo porcine heart model. International Journal of Cardiovascular Imaging, 2017, 33, 1821-1830.	0.7	8
100	Dose reduction techniques in coronary calcium scoring: The effect of iterative reconstruction combined with low tube voltage on calcium scores in a thoracic phantom. European Journal of Radiology, 2017, 93, 229-235.	1.2	10
101	Airway wall thickness on HRCT scans decreases with age and increases with smoking. BMC Pulmonary Medicine, 2017, 17, 27.	0.8	23
102	Feasibility of spectral shaping for detection and quantification of coronary calcifications in ultra-low dose CT. European Radiology, 2017, 27, 2047-2054.	2.3	17
103	Risk assessment in relation to the detection of small pulmonary nodules. Translational Lung Cancer Research, 2017, 6, 35-41.	1.3	11
104	EU Policy on Lung Cancer CT Screening 2017. Biomedicine Hub, 2017, 2, 1-8.	0.4	5
105	Volume versus diameter assessment of small pulmonary nodules in CT lung cancer screening. Translational Lung Cancer Research, 2017, 6, 52-61.	1.3	58
106	Small pulmonary nodules in baseline and incidence screening rounds of low-dose CT lung cancer screening. Translational Lung Cancer Research, 2017, 6, 42-51.	1.3	24
107	Diminished liver microperfusion in Fontan patients: A biexponential DWI study. PLoS ONE, 2017, 12, e0173149.	1.1	14
108	Preface on â€œpulmonary nodules special issue for lung cancerâ€. Translational Lung Cancer Research, 2017, 6, 1-2.	1.3	2

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109	Smokers with emphysema and small airway disease on computed tomography have lower bone density. International Journal of COPD, 2016, 11, 1207.	0.9	15
110	Quantitative STIR of muscle for monitoring nerve regeneration. Journal of Magnetic Resonance Imaging, 2016, 44, 401-410.	1.9	10
111	Quantitative DWI implemented after DCE-MRI yields increased specificity for BI-RADS 3 and 4 breast lesions. Journal of Magnetic Resonance Imaging, 2016, 44, 1642-1649.	1.9	51
112	Follow-up of CT-derived airway wall thickness: Correcting for changes in inspiration level improves reliability. European Journal of Radiology, 2016, 85, 2008-2013.	1.2	8
113	Caffeine intake inverts the effect of adenosine on myocardial perfusion during stress as measured by T1 mapping. International Journal of Cardiovascular Imaging, 2016, 32, 1545-1553.	0.7	31
114	Multiethnic Exome-Wide Association Study of Subclinical Atherosclerosis. Circulation: Cardiovascular Genetics, 2016, 9, 511-520.	5.1	54
115	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. Lancet Oncology, The, 2016, 17, 907-916.	5.1	183
116	Post-deployment usability evaluation of a radiology workstation. International Journal of Medical Informatics, 2016, 85, 28-35.	1.6	8
117	Semiâ€automated quantitative intravoxel incoherent motion analysis and its implementation in breast diffusionâ€weighted imaging. Journal of Magnetic Resonance Imaging, 2016, 43, 1122-1131.	1.9	22
118	Genome-wide association study of coronary and aortic calcification in lung cancer screening CT. Proceedings of SPIE, 2016, , .	0.8	0
119	Inter-observer and inter-examination variability of manual vertebral bone attenuation measurements on computed tomography. European Radiology, 2016, 26, 3046-3053.	2.3	43
120	Pattern mining of user interaction logs for a post-deployment usability evaluation of a radiology PACS client. International Journal of Medical Informatics, 2016, 85, 36-42.	1.6	12
121	Contrast-optimized composite image derived from multigradient echo cardiac magnetic resonance imaging improves reproducibility of myocardial contours and T2* measurement. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 17-27.	1.1	5
122	Determination of the optimal screen interval in low-dose CT lung cancer screening: are we there yet?. Translational Cancer Research, 2016, 5, S1070-S1072.	0.4	1
123	Lung Cancer Screening: Evidence, Recommendations, and Controversies. Medical Radiology, 2016, , 165-181.	0.0	0
124	Predicting Human Performance Differences on Multiple Interface Alternatives: KLM, GOMS and CogTool are Unreliable. Procedia Manufacturing, 2015, 3, 3725-3731.	1.9	4
125	Development of anEx Vivo, Beating Heart Model for CT Myocardial Perfusion. BioMed Research International, 2015, 2015, 1-8.	0.9	10
126	Intermodel Agreement of Myocardial Blood Flow Estimation From Stress-Rest Myocardial Perfusion Magnetic Resonance Imaging in Patients With Coronary Artery Disease. Investigative Radiology, 2015, 50, 275-282.	3.5	8

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127	Prognostic value of heart valve calcifications for cardiovascular events in a lung cancer screening population. International Journal of Cardiovascular Imaging, 2015, 31, 1243-1249.	0.7	15
128	Parametric Response Mapping Adds Value to Current Computed Tomography Biomarkers in Diagnosing Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1084-1086.	2.5	28
129	Serum Lipid Levels, Body Mass Index, and Their Role in Coronary Artery Calcification. Circulation: Cardiovascular Genetics, 2015, 8, 327-333.	5.1	17
130	The dream of a one-stop-shop: Meta-analysis on myocardial perfusion CT. European Journal of Radiology, 2015, 84, 2411-2420.	1.2	61
131	Airway wall thickness associated with forced expiratory volume in 1 second decline and development of airflow limitation. European Respiratory Journal, 2015, 45, 644-651.	3.1	50
132	Quantification of coronary artery calcium in nongated CT to predict cardiovascular events in male lung cancer screening participants: Results of the NELSON study. Journal of Cardiovascular Computed Tomography, 2015, 9, 50-57.	0.7	52
133	Novel Genes for Airway Wall Thickness Identified with Combined Genome-Wide Association and Expression Analyses. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 547-556.	2.5	32
134	Interscan variation of semi-automated volumetry of subsolid pulmonary nodules. European Radiology, 2015, 25, 1040-1047.	2.3	24
135	Pulmonary function and CT biomarkers as risk factors for cardiovascular events in male lung cancer screening participants: the NELSON study. European Radiology, 2015, 25, 65-71.	2.3	9
136	Computed tomographic characteristics of interval and post screen carcinomas in lung cancer screening. European Radiology, 2015, 25, 81-88.	2.3	80
137	Detection and quantification of the solid component in pulmonary subsolid nodules by semiautomatic segmentation. European Radiology, 2015, 25, 488-496.	2.3	58
138	Correction of lumen contrast-enhancement influence on non-calcified coronary atherosclerotic plaque quantification on CT. International Journal of Cardiovascular Imaging, 2015, 31, 429-436.	0.7	2
139	The impact of radiologistsâ€™ expertise on screen results decisions in a CT lung cancer screening trial. European Radiology, 2015, 25, 792-799.	2.3	14
140	Design and evaluation of a computed tomography (CT)-compatible needle insertion device using an electromagnetic tracking system and CT images. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1845-1852.	1.7	21
141	Contributions of the European Trials (European Randomized Screening Group) in Computed Tomography Lung Cancer Screening. Journal of Thoracic Imaging, 2015, 30, 101-107.	0.8	26
142	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. Medical Image Analysis, 2015, 26, 195-202.	7.0	236
143	Effects of ageing and smoking on pulmonary computed tomography scans using parametric response mapping. European Respiratory Journal, 2015, 46, 1193-1196.	3.1	28
144	Does the aortic annulus undergo conformational change throughout the cardiac cycle? A systematic review. European Heart Journal Cardiovascular Imaging, 2015, 16, jev210.	0.5	41

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145	Hemodynamic significance of coronary stenosis by vessel attenuation measurement on CT compared with adenosine perfusion MRI. European Journal of Radiology, 2015, 84, 92-99.	1.2	5
146	Towards a close computed tomography monitoring approach for screen detected subsolid pulmonary nodules?. European Respiratory Journal, 2015, 45, 765-773.	3.1	98
147	Management of subsolid pulmonary nodules in CT lung cancer screening. Journal of Thoracic Disease, 2015, 7, 1103-6.	0.6	12
148	Automated Coronary Artery Calcification Scoring in Non-Gated Chest CT: Agreement and Reliability. PLoS ONE, 2014, 9, e91239.	1.1	90
149	Comparison of three software systems for semi-automatic volumetry of pulmonary nodules on baseline and follow-up CT examinations. Acta Radiologica, 2014, 55, 691-698.	0.5	44
150	Features of Resolving and Nonresolving Indeterminate Pulmonary Nodules at Follow-up CT: The NELSON Study. Radiology, 2014, 270, 872-879.	3.6	36
151	Lung cancer probability in patients with CT-detected pulmonary nodules: a prespecified analysis of data from the NELSON trial of low-dose CT screening. Lancet Oncology, The, 2014, 15, 1332-1341.	5.1	424
152	Association of Chronic Obstructive Pulmonary Disease and Smoking Status With Bone Density and Vertebral Fractures in Male Lung Cancer Screening Participants. Journal of Bone and Mineral Research, 2014, 29, 2224-2229.	3.1	36
153	Chronic Respiratory Symptoms Associated With Airway Wall Thickening Measured by Thin-Slice Low-Dose CT. American Journal of Roentgenology, 2014, 203, W383-W390.	1.0	21
154	Automatic detection of subsolid pulmonary nodules in thoracic computed tomography images. Medical Image Analysis, 2014, 18, 374-384.	7.0	214
155	Discriminating dominant computed tomography phenotypes in smokers without or with mild COPD. Respiratory Medicine, 2014, 108, 136-143.	1.3	26
156	Effect of b value and pre-admission of contrast on diagnostic accuracy of 1.5-T breast DWI: a systematic review and meta-analysis. European Radiology, 2014, 24, 2835-2847.	2.3	128
157	Detection of lung cancer through low-dose CT screening (NELSON): a prespecified analysis of screening test performance and interval cancers. Lancet Oncology, The, 2014, 15, 1342-1350.	5.1	294
158	Contribution of CT Quantified Emphysema, Air Trapping and Airway Wall Thickness on Pulmonary Function in Male Smokers With and Without COPD. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2014, 11, 503-509.	0.7	39
159	Small Irregular Pulmonary Nodules in Low-Dose CT: Observer Detection Sensitivity and Volumetry Accuracy. American Journal of Roentgenology, 2014, 202, W202-W209.	1.0	27
160	Clinical Implications of Non-Steatotic Hepatic Fat Fractions on Quantitative Diffusion-Weighted Imaging of the Liver. PLoS ONE, 2014, 9, e87926.	1.1	7
161	Diagnosis of chronic obstructive pulmonary disease in lung cancer screening Computed Tomography scans: independent contribution of emphysema, air trapping and bronchial wall thickening. Respiratory Research, 2013, 14, 59.	1.4	63
162	Low-dose CT measurements of airway dimensions and emphysema associated with airflow limitation in heavy smokers: a cross sectional study. Respiratory Research, 2013, 14, 11.	1.4	32

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163	Non-calcified coronary atherosclerotic plaque visualization on CT: effects of contrast-enhancement and lipid-content fractions. International Journal of Cardiovascular Imaging, 2013, 29, 1137-1148.	0.7	9
164	Optimisation of volume-doubling time cutoff for fast-growing lung nodules in CT lung cancer screening reduces false-positive referrals. European Radiology, 2013, 23, 1836-1845.	2.3	79
165	Genome-wide association study of coronary and aortic calcification implicates risk loci for coronary artery disease and myocardial infarction. Atherosclerosis, 2013, 228, 400-405.	0.4	100
166	Lung Cancer Screening CT-Based Prediction of CardiovascularÂEvents. JACC: Cardiovascular Imaging, 2013, 6, 899-907.	2.3	89
167	Prospects for population screening and diagnosis of lung cancer. Lancet, The, 2013, 382, 732-741.	6.3	121
168	Sensitivity and accuracy of volumetry of pulmonary nodules on low-dose 16- and 64-row multi-detector CT: an anthropomorphic phantom study. European Radiology, 2013, 23, 139-147.	2.3	55
169	Quantitative Analysis of Coronary Plaque Composition by Dual-Source CT in Patients with Acute Nonâ€“ST-Elevation Myocardial Infarction Compared to Patients with Stable Coronary Artery Disease Correlated with Virtual Histology Intravascular Ultrasound. Academic Radiology, 2013, 20, 995-1003.	1.3	4
170	Characteristics of Lung Cancers Detected by Computer Tomography Screening in the Randomized NELSON Trial. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 848-854.	2.5	202
171	Slow-growing lung cancer as an emerging entity: from screening to clinical management. European Respiratory Journal, 2013, 42, 1706-1722.	3.1	36
172	Volumetric computed tomography screening for lung cancer: three rounds of the NELSON trial. European Respiratory Journal, 2013, 42, 1659-1667.	3.1	190
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