

Konstantin Nikolaou

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164
papers

11,069
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103
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167
ext. papers

12,374
ext. citations

6.5
avg, IF

5.66
L-index

#	Paper	IF	Citations
164	Quantification of obstructive and nonobstructive coronary lesions by 64-slice computed tomography: a comparative study with quantitative coronary angiography and intravascular ultrasound. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 147-54	15.1	930
163	Accuracy of 64-slice computed tomography to classify and quantify plaque volumes in the proximal coronary system: a comparative study using intravascular ultrasound. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 672-7	15.1	606
162	Accuracy of multidetector spiral computed tomography in identifying and differentiating the composition of coronary atherosclerotic plaques: a comparative study with intracoronary ultrasound. <i>Journal of the American College of Cardiology</i> , 2004 , 43, 1241-7	15.1	579
161	Metal artifact reduction by dual energy computed tomography using monoenergetic extrapolation. <i>European Radiology</i> , 2011 , 21, 1424-9	8	432
160	Dual-source CT cardiac imaging: initial experience. <i>European Radiology</i> , 2006 , 16, 1409-15	8	290
159	18F-FDG PET/CT identifies patients at risk for future vascular events in an otherwise asymptomatic cohort with neoplastic disease. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1611-20	8.9	274
158	Dual energy CT characterization of urinary calculi: initial in vitro and clinical experience. <i>Investigative Radiology</i> , 2008 , 43, 112-9	10.1	271
157	Accuracy of 64-MDCT in the diagnosis of ischemic heart disease. <i>American Journal of Roentgenology</i> , 2006 , 187, 1111-7	5.4	244
156	Diagnostic accuracy of dual-source multi-slice CT-coronary angiography in patients with an intermediate pretest likelihood for coronary artery disease. <i>European Heart Journal</i> , 2007 , 28, 2354-60	9.5	239
155	Dual energy CT for the assessment of lung perfusion--correlation to scintigraphy. <i>European Journal of Radiology</i> , 2008 , 68, 369-74	4.7	223
154	Computed tomography and magnetic resonance imaging for noninvasive coronary angiography and plaque imaging: current and potential future concepts. <i>Circulation</i> , 2002 , 106, 2026-34	16.7	218
153	Detection of hemodynamically significant coronary artery stenosis: incremental diagnostic value of dynamic CT-based myocardial perfusion imaging. <i>Radiology</i> , 2011 , 260, 689-98	20.5	216
152	Ex vivo coronary atherosclerotic plaque characterization with multi-detector-row CT. <i>European Radiology</i> , 2003 , 13, 2094-8	8	215
151	25 Years of Contrast-Enhanced MRI: Developments, Current Challenges and Future Perspectives. <i>Advances in Therapy</i> , 2016 , 33, 1-28	4.1	211
150	Dual-energy CT for the assessment of contrast material distribution in the pulmonary parenchyma. <i>American Journal of Roentgenology</i> , 2009 , 193, 144-9	5.4	173
149	Single-phase dual-energy CT allows for characterization of renal masses as benign or malignant. <i>Investigative Radiology</i> , 2010 , 45, 399-405	10.1	172
148	Image quality, motion artifacts, and reconstruction timing of 64-slice coronary computed tomography angiography with 0.33-second rotation speed. <i>Investigative Radiology</i> , 2006 , 41, 436-42	10.1	159

147	Dual energy CT of the chest: how about the dose?. <i>Investigative Radiology</i> , 2010 , 45, 347-53	10.1	150
146	Emphysema diagnosis using X-ray dark-field imaging at a laser-driven compact synchrotron light source. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17880-5	11.5	138
145	Prevalence of nonstenosing, complicated atherosclerotic plaques in cryptogenic stroke. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 397-405	8.4	135
144	MedGAN: Medical image translation using GANs. <i>Computerized Medical Imaging and Graphics</i> , 2020 , 79, 101684	7.6	133
143	Meta-analysis and systematic review of the long-term predictive value of assessment of coronary atherosclerosis by contrast-enhanced coronary computed tomography angiography. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2426-36	15.1	131
142	Assessment of myocardial perfusion and viability from routine contrast-enhanced 16-detector-row computed tomography of the heart: preliminary results. <i>European Radiology</i> , 2005 , 15, 864-71	8	129
141	Diagnostic accuracy of dual-source computed tomography in the diagnosis of coronary artery disease. <i>Investigative Radiology</i> , 2007 , 42, 684-91	10.1	128
140	ECG-gated 64-MDCT angiography in the differential diagnosis of acute chest pain. <i>American Journal of Roentgenology</i> , 2007 , 188, 76-82	5.4	121
139	Sixty-four slice spiral CT angiography does not predict the functional relevance of coronary artery stenoses in patients with stable angina. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 4-10	8.8	116
138	In vivo imaging of macrophage activity in the coronary arteries using 68Ga-DOTATATE PET/CT: correlation with coronary calcium burden and risk factors. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 193-7	8.9	115
137	Pulmonary arterial hypertension: diagnosis with fast perfusion MR imaging and high-spatial-resolution MR angiography--preliminary experience. <i>Radiology</i> , 2005 , 236, 694-703	20.5	107
136	Advances in cardiac CT imaging: 64-slice scanner. <i>International Journal of Cardiovascular Imaging</i> , 2004 , 20, 535-40	2.5	104
135	Comparison of spiral multidetector CT angiography and myocardial perfusion imaging in the noninvasive detection of functionally relevant coronary artery lesions: first clinical experiences. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 1294-300	8.9	104
134	High-spatial-resolution multistation MR angiography with parallel imaging and blood pool contrast agent: initial experience. <i>Radiology</i> , 2006 , 241, 861-72	20.5	95
133	Pulmonary emphysema diagnosis with a preclinical small-animal X-ray dark-field scatter-contrast scanner. <i>Radiology</i> , 2013 , 269, 427-33	20.5	93
132	Multidetector-row computed tomography and magnetic resonance imaging of atherosclerotic lesions in human ex vivo coronary arteries. <i>Atherosclerosis</i> , 2004 , 174, 243-52	3.1	93
131	CT stress perfusion imaging for detection of haemodynamically relevant coronary stenosis as defined by FFR. <i>Heart</i> , 2013 , 99, 1004-11	5.1	92
130	Quantification of pulmonary blood flow and volume in healthy volunteers by dynamic contrast-enhanced magnetic resonance imaging using a parallel imaging technique. <i>Investigative Radiology</i> , 2004 , 39, 537-45	10.1	91

129	Prognostic value of dynamic hypoxia PET in head and neck cancer: Results from a planned interim analysis of a randomized phase II hypoxia-image guided dose escalation trial. <i>Radiotherapy and Oncology</i> , 2017 , 124, 526-532	5.3	84
128	Saving dose in triple-rule-out computed tomography examination using a high-pitch dual spiral technique. <i>Investigative Radiology</i> , 2010 , 45, 64-71	10.1	83
127	Dynamic myocardial stress perfusion imaging using fast dual-source CT with alternating table positions: initial experience. <i>European Radiology</i> , 2010 , 20, 1168-73	8	83
126	Dynamic myocardial CT perfusion imaging for evaluation of myocardial ischemia as determined by MR imaging. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 267-77	8.4	82
125	Assessment of myocardial infarctions using multidetector-row computed tomography. <i>Journal of Computer Assisted Tomography</i> , 2004 , 28, 286-92	2.2	80
124	Single breath-hold real-time cine MR imaging: improved temporal resolution using generalized autocalibrating partially parallel acquisition (GRAPPA) algorithm. <i>European Radiology</i> , 2003 , 13, 1931-6	8	78
123	Image quality of virtual noncontrast images derived from dual-energy CT angiography after endovascular aneurysm repair. <i>Journal of Vascular and Interventional Radiology</i> , 2010 , 21, 315-21	2.4	77
122	Dual-source CT for chest pain assessment. <i>European Radiology</i> , 2008 , 18, 773-80	8	76
121	Cardiovascular screening with parallel imaging techniques and a whole-body MR imager. <i>Radiology</i> , 2005 , 236, 300-10	20.5	74
120	Accuracy of dynamic computed tomography adenosine stress myocardial perfusion imaging in estimating myocardial blood flow at various degrees of coronary artery stenosis using a porcine animal model. <i>Investigative Radiology</i> , 2012 , 47, 71-7	10.1	72
119	The value of dual-energy bone removal in maximum intensity projections of lower extremity computed tomography angiography. <i>Investigative Radiology</i> , 2009 , 44, 285-92	10.1	67
118	Pulmonary ventilation and perfusion imaging with dual-energy CT. <i>European Radiology</i> , 2010 , 20, 2882-98		67
117	Cardiac CINE MR imaging with a 32-channel cardiac coil and parallel imaging: impact of acceleration factors on image quality and volumetric accuracy. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 222-7	5.6	66
116	Noninvasive coronary angiography using dual-source computed tomography in patients with atrial fibrillation. <i>Investigative Radiology</i> , 2009 , 44, 159-67	10.1	65
115	Diffusion-weighted MRI of the prostate: advantages of Zoomed EPI with parallel-transmit-accelerated 2D-selective excitation imaging. <i>European Radiology</i> , 2014 , 24, 3233-41	8	63
114	Assessment of coronary artery stent patency and restenosis using 64-slice computed tomography. <i>Academic Radiology</i> , 2006 , 13, 1465-73	4.3	61
113	Whole-brain CT perfusion: reliability and reproducibility of volumetric perfusion deficit assessment in patients with acute ischemic stroke. <i>Neuroradiology</i> , 2013 , 55, 827-35	3.2	60
112	Optimal timing for first-pass stress CT myocardial perfusion imaging. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 435-42	2.5	60

111	Comparison and Combination of Dual-Energy- and Iterative-Based Metal Artefact Reduction on Hip Prosthesis and Dental Implants. <i>PLoS ONE</i> , 2015 , 10, e0143584	3.7	59
110	Association of inflammation of the left anterior descending coronary artery with cardiovascular risk factors, plaque burden and pericardial fat volume: a PET/CT study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37, 1203-12	8.8	59
109	In vivo 16-slice, multidetector-row computed tomography for the assessment of experimental atherosclerosis: comparison with magnetic resonance imaging and histopathology. <i>Circulation</i> , 2004 , 110, 1467-72	16.7	59
108	Adequate image quality with reduced radiation dose in prospectively triggered coronary CTA compared with retrospective techniques. <i>European Radiology</i> , 2009 , 19, 2147-55	8	56
107	Multidetector-row computed tomography of the coronary arteries: predictive value and quantitative assessment of non-calcified vessel-wall changes. <i>European Radiology</i> , 2003 , 13, 2505-12	8	56
106	Contrast bolus optimization for cardiac 16-slice computed tomography: comparison of contrast medium formulations containing 300 and 400 milligrams of iodine per milliliter. <i>Investigative Radiology</i> , 2006 , 41, 460-7	10.1	53
105	Visual and automatic grading of coronary artery stenoses with 64-slice CT angiography in reference to invasive angiography. <i>European Radiology</i> , 2007 , 17, 1445-51	8	51
104	Incremental prognostic value of different components of coronary atherosclerotic plaque at cardiac CT angiography beyond coronary calcification in patients with acute chest pain. <i>Radiology</i> , 2012 , 264, 679-90	20.5	50
103	Vessel wall inflammation in spontaneous cervical artery dissection: a prospective, observational positron emission tomography, computed tomography, and magnetic resonance imaging study. <i>Stroke</i> , 2011 , 42, 1563-8	6.7	50
102	Clinical value of MDCT in the diagnosis of coronary artery disease in patients with a low pretest likelihood of significant disease. <i>American Journal of Roentgenology</i> , 2006 , 186, 1659-68	5.4	50
101	Time-resolved CT angiography for the detection and classification of endoleaks. <i>Radiology</i> , 2012 , 263, 917-26	20.5	49
100	Optimization of contrast material administration for electrocardiogram-gated computed tomographic angiography of the chest. <i>Journal of Computer Assisted Tomography</i> , 2007 , 31, 265-71	2.2	48
99	Severity assessment of pulmonary embolism using dual energy CT - correlation of a pulmonary perfusion defect score with clinical and morphological parameters of blood oxygenation and right ventricular failure. <i>European Radiology</i> , 2012 , 22, 269-78	8	45
98	Improved diagnosis of pulmonary emphysema using in vivo dark-field radiography. <i>Investigative Radiology</i> , 2014 , 49, 653-8	10.1	44
97	Automated computer-aided stenosis detection at coronary CT angiography: initial experience. <i>European Radiology</i> , 2010 , 20, 1160-7	8	43
96	Value of automatic bone subtraction in cranial CT angiography: comparison of bone-subtracted vs. standard CT angiography in 100 patients. <i>European Radiology</i> , 2008 , 18, 974-82	8	43
95	MR-guided microwave ablation in hepatic tumours: initial results in clinical routine. <i>European Radiology</i> , 2017 , 27, 1467-1476	8	42
94	High resolution carotid black-blood 3T MR with parallel imaging and dedicated 4-channel surface coils. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, 41	6.9	41

93	Contrast-enhanced whole-heart MR coronary angiography at 3.0 T using the intravascular contrast agent gadofosveset. <i>Investigative Radiology</i> , 2009 , 44, 369-74	10.1	41
92	Diagnosing pulmonary embolism: new computed tomography applications. <i>Journal of Thoracic Imaging</i> , 2010 , 25, 151-60	5.6	40
91	Detection of healed myocardial infarction with multidetector-row computed tomography and comparison with cardiac magnetic resonance delayed hyperenhancement. <i>American Journal of Cardiology</i> , 2006 , 98, 149-55	3	39
90	Impact of an advanced image-based monoenergetic reconstruction algorithm on coronary stent visualization using third generation dual-source dual-energy CT: a phantom study. <i>European Radiology</i> , 2016 , 26, 1871-8	8	37
89	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
88	Myocardial CT perfusion imaging in a large animal model: comparison of dynamic versus single-phase acquisitions. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 1229-38	8.4	37
87	Cardiac steady-state free precession CINE magnetic resonance imaging at 3.0 tesla: impact of parallel imaging acceleration on volumetric accuracy and signal parameters. <i>Investigative Radiology</i> , 2006 , 41, 141-7	10.1	37
86	Diagnosing and mapping pulmonary emphysema on X-ray projection images: incremental value of grating-based X-ray dark-field imaging. <i>PLoS ONE</i> , 2013 , 8, e59526	3.7	35
85	MRI and CT in the diagnosis of coronary artery disease: indications and applications. <i>Insights Into Imaging</i> , 2011 , 2, 9-24	5.6	34
84	Iodine concentration as a perfusion surrogate marker in oncology: Further elucidation of the underlying mechanisms using Volume Perfusion CT with 80 kVp. <i>European Radiology</i> , 2016 , 26, 2929-36	8	33
83	Pancreatic fat content by magnetic resonance imaging in subjects with prediabetes, diabetes, and controls from a general population without cardiovascular disease. <i>PLoS ONE</i> , 2017 , 12, e0177154	3.7	32
82	Flat panel computed tomography of human ex vivo heart and bone specimens: initial experience. <i>European Radiology</i> , 2005 , 15, 329-33	8	32
81	Quantitative pulmonary perfusion magnetic resonance imaging: influence of temporal resolution and signal-to-noise ratio. <i>Investigative Radiology</i> , 2010 , 45, 7-14	10.1	31
80	Impact of iterative metal artifact reduction on diagnostic image quality in patients with dental hardware. <i>Acta Radiologica</i> , 2017 , 58, 279-285	2	28
79	The carotid plaque imaging in acute stroke (CAPIAS) study: protocol and initial baseline data. <i>BMC Neurology</i> , 2013 , 13, 201	3.1	26
78	Time-resolved 3D pulmonary perfusion MRI: comparison of different k-space acquisition strategies at 1.5 and 3 T. <i>Investigative Radiology</i> , 2009 , 44, 525-31	10.1	26
77	Diagnostic image quality of a comprehensive high-pitch dual-spiral cardiothoracic CT protocol in patients with undifferentiated acute chest pain. <i>European Journal of Radiology</i> , 2012 , 81, 3697-702	4.7	25
76	Intraindividual comparison of contrast-enhanced electron-beam computed tomography and navigator-echo-based magnetic resonance imaging for noninvasive coronary artery angiography. <i>European Radiology</i> , 2002 , 12, 1663-71	8	25

75	Impact of cardiovascular risk factors on vessel wall inflammation and calcified plaque burden differs across vascular beds: a PET-CT study. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1899-908	2.5	24
74	Magnetic resonance imaging and computed tomography in assessment of atherosclerotic plaque. <i>Current Atherosclerosis Reports</i> , 2004 , 6, 232-42	6	24
73	Improving CT-Based PET Attenuation Correction in the Vicinity of Metal Implants by an Iterative Metal Artifact Reduction Algorithm of CT Data and Its Comparison to Dual-Energy-Based Strategies: A Phantom Study. <i>Investigative Radiology</i> , 2017 , 52, 61-65	10.1	23
72	Diagnostic accuracy of coronary CT angiography using 3-generation dual-source CT and automated tube voltage selection: Clinical application in a non-obese and obese patient population. <i>European Radiology</i> , 2017 , 27, 2298-2308	8	23
71	Assessment of pulmonary perfusion with breath-hold and free-breathing dynamic contrast-enhanced magnetic resonance imaging: quantification and reproducibility. <i>Investigative Radiology</i> , 2014 , 49, 382-9	10.1	23
70	Prospective Evaluation of a Tumor Control Probability Model Based on Dynamic F-FMISO PET for Head and Neck Cancer Radiotherapy. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 1698-1704	8.9	22
69	Diffusion-weighted imaging in the assessment of prostate cancer: Comparison of zoomed imaging and conventional technique. <i>European Journal of Radiology</i> , 2016 , 85, 893-900	4.7	22
68	Parallel-transmit-accelerated spatially-selective excitation MRI for reduced-FOV diffusion-weighted-imaging of the pancreas. <i>European Journal of Radiology</i> , 2014 , 83, 1709-14	4.7	22
67	Dual-energy lung perfusion computed tomography: a novel pulmonary functional imaging method. <i>Seminars in Ultrasound, CT and MRI</i> , 2010 , 31, 301-8	1.7	22
66	Perfusion MRI for monitoring the effect of sorafenib on experimental prostate carcinoma: a validation study. <i>American Journal of Roentgenology</i> , 2012 , 198, 384-91	5.4	22
65	High-resolution ex vivo imaging of coronary artery stents using 64-slice computed tomography--initial experience. <i>European Radiology</i> , 2006 , 16, 1564-9	8	22
64	Lung tumors on multimodal radiographs derived from grating-based X-ray imaging--a feasibility study. <i>Physica Medica</i> , 2014 , 30, 352-7	2.7	21
63	Assessment of image quality of a radiotherapy-specific hardware solution for PET/MRI in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2018 , 128, 485-491	5.3	20
62	Comparison of contrast-to-noise ratios of transmission and dark-field signal in grating-based X-ray imaging for healthy murine lung tissue. <i>Zeitschrift Fur Medizinische Physik</i> , 2013 , 23, 236-42	7.6	20
61	New applications for noninvasive cardiac imaging: dual-source computed tomography. <i>European Radiology, Supplement</i> , 2007 , 17 Suppl 6, F16-25		20
60	Complementary results of computed tomography and magnetic resonance imaging of the heart and coronary arteries: a review and future outlook. <i>Cardiology Clinics</i> , 2003 , 21, 639-55	2.5	20
59	Robustness of quantitative hypoxia PET image analysis for predicting local tumor control. <i>Acta Oncologica</i> , 2015 , 54, 1364-9	3.2	18
58	Diffusion-weighted imaging in musculoskeletal radiology-clinical applications and future directions. <i>Quantitative Imaging in Medicine and Surgery</i> , 2015 , 5, 740-53	3.6	18

57	Geometric analysis of loco-regional recurrences in relation to pre-treatment hypoxia in patients with head and neck cancer. <i>Acta Oncologica</i> , 2017 , 56, 1571-1576	3.2	17
56	Optimization of cardiac MSCT contrast injection protocols: dependency of the main bolus contrast density on test bolus parameters and patients' body weight. <i>Academic Radiology</i> , 2008 , 15, 49-57	4.3	16
55	Independent attenuation correction of whole body [F]FDG-PET using a deep learning approach with Generative Adversarial Networks. <i>EJNMMI Research</i> , 2020 , 10, 53	3.6	16
54	Renal Lesion Characterization with Spectral CT: Determining the Optimal Energy for Virtual Monoenergetic Reconstruction. <i>Radiology</i> , 2018 , 287, 874-883	20.5	15
53	Feasibility of dynamic CT-based adenosine stress myocardial perfusion imaging to detect and differentiate ischemic and infarcted myocardium in a large experimental porcine animal model. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 803-12	2.5	15
52	Worsening respiratory function in mechanically ventilated intensive care patients: feasibility and value of xenon-enhanced dual energy CT. <i>European Journal of Radiology</i> , 2013 , 82, 557-62	4.7	15
51	Time-resolved computed tomography imaging of the aorta: a feasibility study. <i>Journal of Thoracic Imaging</i> , 2010 , 25, 161-7	5.6	15
50	Overlap of highly FDG-avid and FMISO hypoxic tumor subvolumes in patients with head and neck cancer. <i>Acta Oncologica</i> , 2017 , 56, 1577-1582	3.2	14
49	Evidencia científica reciente y avances técnicos en la tomografía computarizada cardiovascular. <i>Revista Espanola De Cardiologia</i> , 2016 , 69, 509-514	1.5	12
48	Diffusion-weighted echo planar MR imaging of the neck at 3 T using integrated shimming: comparison of MR sequence techniques for reducing artifacts caused by magnetic-field inhomogeneities. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017 , 30, 57-63	2.8	12
47	Systolic acquisition of coronary dual-source computed tomography angiography: feasibility in an unselected patient population. <i>European Radiology</i> , 2010 , 20, 1331-6	8	12
46	Combined functional and morphological imaging consisting of gated myocardial perfusion SPECT and 16-detector multislice spiral CT angiography in the noninvasive evaluation of coronary artery disease: first experiences. <i>Clinical Imaging</i> , 2007 , 31, 313-20	2.7	12
45	Cardiac computed tomography for the evaluation of the acute chest pain syndrome: state of the art. <i>Radiologic Clinics of North America</i> , 2015 , 53, 297-305	2.3	11
44	Ex Vivo Perfusion-Simulation Measurements of Microbubbles as a Scattering Contrast Agent for Grating-Based X-Ray Dark-Field Imaging. <i>PLoS ONE</i> , 2015 , 10, e0129512	3.7	11
43	Feasibility, efficacy, and safety of percutaneous MR-guided ablation of small (≤2 mm) hepatic malignancies. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 49, 374-381	5.6	11
42	Diagnostic Accuracy of Simulated Low-Dose Perfusion CT to Detect Cerebral Perfusion Impairment after Aneurysmal Subarachnoid Hemorrhage: A Retrospective Analysis. <i>Radiology</i> , 2018 , 287, 643-650	20.5	10
41	Individual patient data meta-analysis for the clinical assessment of coronary computed tomography angiography: protocol of the Collaborative Meta-Analysis of Cardiac CT (CoMe-CCT). <i>Systematic Reviews</i> , 2013 , 2, 13	3	10
40	Navigator echo-based respiratory gating for three-dimensional MR coronary angiography: reduction of scan time using a slice interpolation technique. <i>Journal of Computer Assisted Tomography</i> , 2001 , 25, 378-87	2.2	10

39	Reproducibility and differentiation of cervical arteriopathies using in vivo high-resolution black-blood MRI at 3 T. <i>Neuroradiology</i> , 2016 , 58, 569-576	3.2	9
38	Detection of pulmonary embolism with free-breathing dynamic contrast-enhanced MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 887-93	5.6	9
37	MR-guided microwave ablation in hepatic malignancies: clinical experiences from 50 procedures. <i>International Journal of Hyperthermia</i> , 2020 , 37, 349-355	3.7	9
36	Spinal dual-energy computed tomography: improved visualisation of spinal tumorous growth with a noise-optimised advanced monoenergetic post-processing algorithm. <i>Neuroradiology</i> , 2016 , 58, 1093-1102	3.2	8
35	Cardiac Multidetector-Row Computed Tomography: Initial Experience Using 16 Detector-Row Systems. <i>Critical Reviews in Diagnostic Imaging</i> , 2003 , 44, 27-45		8
34	Value of CT iterative metal artifact reduction in PET/CT-clinical evaluation in 100 patients. <i>British Journal of Radiology</i> , 2019 , 92, 20180756	3.4	8
33	DCE-MRI biomarkers for monitoring an anti-angiogenic triple combination therapy in experimental hypopharynx carcinoma xenografts with immunohistochemical validation. <i>Acta Radiologica</i> , 2015 , 56, 294-303	2	7
32	Free breathing real-time cardiac cine imaging with improved spatial resolution at 3 T. <i>Investigative Radiology</i> , 2013 , 48, 158-66	10.1	7
31	In vivo monitoring of sorafenib therapy effects on experimental prostate carcinomas using dynamic contrast-enhanced MRI and macromolecular contrast media. <i>Cancer Imaging</i> , 2013 , 13, 557-66	5.6	6
30	Feasibility of free-breathing, GRAPPA-based, real-time cardiac cine assessment of left-ventricular function in cardiovascular patients at 3T. <i>European Journal of Radiology</i> , 2015 , 84, 849-55	4.7	5
29	Cardiovascular whole-body MRI. <i>European Journal of Radiology</i> , 2009 , 70, 418-23	4.7	5
28	Optimization of ex vivo CT- and MR- imaging of atherosclerotic vessel wall changes. <i>International Journal of Cardiovascular Imaging</i> , 2004 , 20, 327-34		5
27	Cardiac Multidetector-Row Computed Tomography: Initial Experience Using 16 Detector-Row Systems		5
26	Evaluation of plaques and stenosis. <i>Radiologic Clinics of North America</i> , 2010 , 48, 729-44	2.3	4
25	Interrupted nitinol U-Clips versus standard running suture for the central arterial T-graft anastomosis: a prospective randomized study. <i>European Journal of Cardio-thoracic Surgery</i> , 2011 , 40, e93-7	3	4
24	Imaging Pulmonary Blood Flow Using Pseudocontinuous Arterial Spin Labeling (PCASL) With Balanced Steady-State Free-Precession (bSSFP) Readout at 1.5T. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 1767-1782	5.6	3
23	The Big Picture: Evidence Base and Current Trials in Cardiac CT. <i>Current Radiology Reports</i> , 2013 , 1, 246-254	2.5	3
22	Small-animal dark-field radiography for pulmonary emphysema evaluation 2014 ,		3

21	MR-Guided High-Power Microwave Ablation in Hepatic Malignancies: Initial Results in Clinical Routine. <i>CardioVascular and Interventional Radiology</i> , 2020 , 43, 1631-1638	2.7	3
20	Cardiac multidetector-row computed tomography: initial experience using 16 detector-row systems. <i>Critical Reviews in Computed Tomography</i> , 2003 , 44, 27-45		3
19	Dose escalation to hypoxic subvolumes in head and neck cancer: A randomized phase II study using dynamic [F]FMISO PET/CT.. <i>Radiotherapy and Oncology</i> , 2022 ,	5.3	3
18	High-Pitch Low-Dose Whole-Body Computed Tomography for the Assessment of Ventriculoperitoneal Shunts in a Pediatric Patient Model: An Experimental Ex Vivo Study in Rabbits. <i>Investigative Radiology</i> , 2015 , 50, 858-62	10.1	2
17	Evaluation of left atrial myxoma by dual-source CT. <i>CardioVascular and Interventional Radiology</i> , 2007 , 30, 1085-6	2.7	2
16	Artefact and ablation performance of an MR-conditional high-power microwave system in bovine livers: an ex vivo study. <i>European Radiology Experimental</i> , 2019 , 3, 39	4.5	2
15	Recent Scientific Evidence and Technical Developments in Cardiovascular Computed Tomography. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2016 , 69, 509-14	0.7	2
14	Applicability and accuracy of pretest probability calculations implemented in the NICE clinical guideline for decision making about imaging in patients with chest pain of recent onset. <i>European Radiology</i> , 2018 , 28, 4006-4017	8	1
13	Application of a Metal Artifact Reduction Algorithm for C-Arm Cone-Beam CT: Impact on Image Quality and Diagnostic Confidence for Bronchial Artery Embolization. <i>CardioVascular and Interventional Radiology</i> , 2019 , 42, 1449-1458	2.7	1
12	Material characterization of dual-energy computed tomographic data using polar coordinates. <i>Journal of Computer Assisted Tomography</i> , 2015 , 39, 134-9	2.2	1
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