

Damini Dey

List of Publications by Citations

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264
papers

7,173
citations

48
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332
ext. papers

9,903
ext. citations

4.8
avg, IF

5.85
L-index

#	Paper	IF	Citations
264	Machine learning for prediction of all-cause mortality in patients with suspected coronary artery disease: a 5-year multicentre prospective registry analysis. <i>European Heart Journal</i> , 2017 , 38, 500-507	9.5	275
263	Artificial Intelligence in Cardiovascular Imaging: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 1317-1335	15.1	186
262	Coronary plaque quantification and fractional flow reserve by coronary computed tomography angiography identify ischaemia-causing lesions. <i>European Heart Journal</i> , 2016 , 37, 1220-7	9.5	184
261	Pericardial fat burden on ECG-gated noncontrast CT in asymptomatic patients who subsequently experience adverse cardiovascular events. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 352-60	8.4	176
260	Increased volume of epicardial fat is an independent risk factor for accelerated progression of sub-clinical coronary atherosclerosis. <i>Atherosclerosis</i> , 2012 , 220, 223-30	3.1	171
259	Deep Learning for Prediction of Obstructive Disease From Fast Myocardial Perfusion SPECT: A Multicenter Study. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1654-1663	8.4	147
258	Automated three-dimensional quantification of noncalcified coronary plaque from coronary CT angiography: comparison with intravascular US. <i>Radiology</i> , 2010 , 257, 516-22	20.5	138
257	Increased pericardial fat volume measured from noncontrast CT predicts myocardial ischemia by SPECT. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 1104-12	8.4	116
256	Computer-aided non-contrast CT-based quantification of pericardial and thoracic fat and their associations with coronary calcium and Metabolic Syndrome. <i>Atherosclerosis</i> , 2010 , 209, 136-41	3.1	113
255	Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction: Results From the Multicenter SCOT-HEART Trial (Scottish Computed Tomography of the HEART). <i>Circulation</i> , 2020 , 141, 1452-1462	16.7	105
254	Prognostic Value of Combined Clinical and Myocardial Perfusion Imaging Data Using Machine Learning. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1000-1009	8.4	99
253	Pericoronary Adipose Tissue Computed Tomography Attenuation and High-Risk Plaque Characteristics in Acute Coronary Syndrome Compared With Stable Coronary Artery Disease. <i>JAMA Cardiology</i> , 2018 , 3, 858-863	16.2	98
252	Deep Learning for Quantification of Epicardial and Thoracic Adipose Tissue From Non-Contrast CT. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1835-1846	11.7	85
251	Integrated prediction of lesion-specific ischaemia from quantitative coronary CT angiography using machine learning: a multicentre study. <i>European Radiology</i> , 2018 , 28, 2655-2664	8	85
250	Epicardial adipose tissue density and volume are related to subclinical atherosclerosis, inflammation and major adverse cardiac events in asymptomatic subjects. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 67-73	2.8	84
249	Automated 3-dimensional quantification of noncalcified and calcified coronary plaque from coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2009 , 3, 372-82	2.8	83
248	Improved accuracy of myocardial perfusion SPECT for detection of coronary artery disease by machine learning in a large population. <i>Journal of Nuclear Cardiology</i> , 2013 , 20, 553-62	2.1	82

247	Guideline for minimizing radiation exposure during acquisition of coronary artery calcium scans with the use of multidetector computed tomography: a report by the Society for Atherosclerosis Imaging and Prevention Tomographic Imaging and Prevention Councils in collaboration with the Society of Cardiovascular Computed Tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2011 , 5, 75-83	2.8	81
246	Increase in epicardial fat volume is associated with greater coronary artery calcification progression in subjects at intermediate risk by coronary calcium score: a serial study using non-contrast cardiac CT. <i>Atherosclerosis</i> , 2011 , 218, 363-8	3.1	81
245	Whole-heart, free-breathing, three-dimensional myocardial BOLD MRI at 3T with simultaneous 13N-ammonia PET in canines. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
244	Coronary artery calcium scoring using a reduced tube voltage and radiation dose protocol with dual-source computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2009 , 3, 394-400	2.8	76
243	Prediction of revascularization after myocardial perfusion SPECT by machine learning in a large population. <i>Journal of Nuclear Cardiology</i> , 2015 , 22, 877-84	2.1	72
242	Automated quantitation of pericardiac fat from noncontrast CT. <i>Investigative Radiology</i> , 2008 , 43, 145-53	3.0	72
241	Moving beyond binary grading of coronary arterial stenoses on coronary computed tomographic angiography: insights for the imager and referring clinician. <i>JACC: Cardiovascular Imaging</i> , 2008 , 1, 460-71	8.4	70
240	Quantitative analysis of myocardial perfusion SPECT anatomically guided by coregistered 64-slice coronary CT angiography. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1621-30	8.9	66
239	Coronary arterial 18F-FDG uptake by fusion of PET and coronary CT angiography at sites of percutaneous stenting for acute myocardial infarction and stable coronary artery disease. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 575-83	8.9	66
238	Vulnerable plaque features on coronary CT angiography as markers of inducible regional myocardial hypoperfusion from severe coronary artery stenoses. <i>Atherosclerosis</i> , 2011 , 219, 588-95	3.1	65
237	Quantitative global plaque characteristics from coronary computed tomography angiography for the prediction of future cardiac mortality during long-term follow-up. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 1331-1339	4.1	64
236	Cardiac imaging: working towards fully-automated machine analysis & interpretation. <i>Expert Review of Medical Devices</i> , 2017 , 14, 197-212	3.5	63
235	Automatic fusion of freehand endoscopic brain images to three-dimensional surfaces: creating stereoscopic panoramas. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 23-30	11.7	63
234	Peri-Coronary Adipose Tissue Density Is Associated With F-Sodium Fluoride Coronary Uptake in Stable Patients With High-Risk Plaques. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 2000-2010	8.4	63
233	Weight change modulates epicardial fat burden: a 4-year serial study with non-contrast computed tomography. <i>Atherosclerosis</i> , 2012 , 220, 139-44	3.1	62
232	Comparison of the extent and severity of myocardial perfusion defects measured by CT coronary angiography and SPECT myocardial perfusion imaging. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 1010-9	8.4	61
231	Motion Correction of 18F-NaF PET for Imaging Coronary Atherosclerotic Plaques. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 54-9	8.9	60
230	Deep Learning Analysis of Upright-Supine High-Efficiency SPECT Myocardial Perfusion Imaging for Prediction of Obstructive Coronary Artery Disease: A Multicenter Study. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 664-670	8.9	58

229	Automated 3-dimensional registration of stand-alone (18)F-FDG whole-body PET with CT. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 1156-67	8.9	58
228	Relationship between changes in pericoronary adipose tissue attenuation and coronary plaque burden quantified from coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 636-643	4.1	57
227	Lesion-Specific and Vessel-Related Determinants of Fractional Flow Reserve Beyond Coronary Artery Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 521-530	8.4	55
226	Association of epicardial fat, hypertension, subclinical coronary artery disease, and metabolic syndrome with left ventricular diastolic dysfunction. <i>American Journal of Cardiology</i> , 2012 , 110, 1793-8	3	55
225	Quantification and characterisation of coronary artery plaque volume and adverse plaque features by coronary computed tomographic angiography: a direct comparison to intravascular ultrasound. <i>European Radiology</i> , 2013 , 23, 2109-17	8	54
224	Relation of diagonal ear lobe crease to the presence, extent, and severity of coronary artery disease determined by coronary computed tomography angiography. <i>American Journal of Cardiology</i> , 2012 , 109, 1283-7	3	54
223	State-of-the-art in CT hardware and scan modes for cardiovascular CT. <i>Journal of Cardiovascular Computed Tomography</i> , 2012 , 6, 154-63	2.8	53
222	Advances in nuclear cardiac instrumentation with a view towards reduced radiation exposure. <i>Current Cardiology Reports</i> , 2012 , 14, 208-16	4.2	53
221	Automated Quantitative Plaque Burden from Coronary CT Angiography Noninvasively Predicts Hemodynamic Significance by using Fractional Flow Reserve in Intermediate Coronary Lesions. <i>Radiology</i> , 2015 , 276, 408-15	20.5	52
220	Comparison of quantitative atherosclerotic plaque burden from coronary CT angiography in patients with first acute coronary syndrome and stable coronary artery disease. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 368-74	2.8	52
219	Algorithm for radiation dose reduction with helical dual source coronary computed tomography angiography in clinical practice. <i>Journal of Cardiovascular Computed Tomography</i> , 2008 , 2, 311-22	2.8	52
218	Epicardial fat volume and concurrent presence of both myocardial ischemia and obstructive coronary artery disease. <i>Atherosclerosis</i> , 2012 , 221, 422-6	3.1	51
217	Epicardial and thoracic fat - Noninvasive measurement and clinical implications. <i>Cardiovascular Diagnosis and Therapy</i> , 2012 , 2, 85-93	2.6	51
216	Automated quantitative Rb-82 3D PET/CT myocardial perfusion imaging: normal limits and correlation with invasive coronary angiography. <i>Journal of Nuclear Cardiology</i> , 2012 , 19, 265-76	2.1	48
215	Improved accuracy of myocardial perfusion SPECT for the detection of coronary artery disease using a support vector machine algorithm. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 549-55	8.9	48
214	Threshold for the upper normal limit of indexed epicardial fat volume: derivation in a healthy population and validation in an outcome-based study. <i>American Journal of Cardiology</i> , 2011 , 108, 1680-5 ³		48
213	MR/PET Imaging of the Cardiovascular System. <i>JACC: Cardiovascular Imaging</i> , 2017 , 10, 1165-1179	8.4	47
212	Predicting success of prospective and retrospective gating with dual-source coronary computed tomography angiography: development of selection criteria and initial experience. <i>Journal of Cardiovascular Computed Tomography</i> , 2008 , 2, 81-90	2.8	46

211	Impact of family history of coronary artery disease in young individuals (from the CONFIRM registry). <i>American Journal of Cardiology</i> , 2013 , 111, 1081-6	3	45
210	Relationship of epicardial fat volume to coronary plaque, severe coronary stenosis, and high-risk coronary plaque features assessed by coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2013 , 7, 125-32	2.8	45
209	Structured learning algorithm for detection of nonobstructive and obstructive coronary plaque lesions from computed tomography angiography. <i>Journal of Medical Imaging</i> , 2015 , 2, 014003	2.6	44
208	Interscan reproducibility of computer-aided epicardial and thoracic fat measurement from noncontrast cardiac CT. <i>Journal of Cardiovascular Computed Tomography</i> , 2011 , 5, 172-9	2.8	44
207	Reproducibility of coronary artery plaque volume and composition quantification by 64-detector row coronary computed tomographic angiography: an intraobserver, interobserver, and interscan variability study. <i>Journal of Cardiovascular Computed Tomography</i> , 2009 , 3, 312-20	2.8	44
206	Interscan reproducibility of quantitative coronary plaque volume and composition from CT coronary angiography using an automated method. <i>European Radiology</i> , 2014 , 24, 2300-8	8	41
205	Effect of the ratio of coronary arterial lumen volume to left ventricle myocardial mass derived from coronary CT angiography on fractional flow reserve. <i>Journal of Cardiovascular Computed Tomography</i> , 2017 , 11, 429-436	2.8	41
204	Fully Automated CT Quantification of Epicardial Adipose Tissue by Deep Learning: A Multicenter Study. <i>Radiology: Artificial Intelligence</i> , 2019 , 1, e190045	8.7	41
203	Coronary F-Sodium Fluoride Uptake Predicts Outcomes in Patients With Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 3061-3074	15.1	38
202	Enhanced definition PET for cardiac imaging. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 414-26	2.1	38
201	Rationale and design of the REgistry of Fast Myocardial Perfusion Imaging with NExt generation SPECT (REFINE SPECT). <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 1010-1021	2.1	38
200	Relationship Between Quantitative Adverse Plaque Features From Coronary Computed Tomography Angiography and Downstream Impaired Myocardial Flow Reserve by ¹³ N-Ammonia Positron Emission Tomography: A Pilot Study. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8, e003255	3.9	37
199	Automatic Valve Plane Localization in Myocardial Perfusion SPECT/CT by Machine Learning: Anatomic and Clinical Validation. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 961-967	8.9	37
198	Image denoising of low-radiation dose coronary CT angiography by an adaptive block-matching 3D algorithm 2013 ,		37
197	Deep Learning-Based Quantification of Epicardial Adipose Tissue Volume and Attenuation Predicts Major Adverse Cardiovascular Events in Asymptomatic Subjects. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e009829	3.9	35
196	Dual-Gated Motion-Frozen Cardiac PET with Flurpiridaz F 18. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1876-81		35
195	Epicardial adipose tissue volume but not density is an independent predictor for myocardial ischemia. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 141-9	2.8	35
194	Machine learning predicts per-vessel early coronary revascularization after fast myocardial perfusion SPECT: results from multicentre REFINE SPECT registry. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 549-559	4.1	35

193	Motion frozen (18)F-FDG cardiac PET. <i>Journal of Nuclear Cardiology</i> , 2011 , 18, 259-66	2.1	34
192	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype: A Prospective Case-Control Study. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2371-2383	8.4	32
191	Imaging of coronary atherosclerosis - evolution towards new treatment strategies. <i>Nature Reviews Cardiology</i> , 2016 , 13, 533-48	14.8	32
190	Assessment of the relationship between stenosis severity and distribution of coronary artery stenoses on multislice computed tomographic angiography and myocardial ischemia detected by single photon emission computed tomography. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 791-802	2.1	31
189	Machine learning to predict the long-term risk of myocardial infarction and cardiac death based on clinical risk, coronary calcium, and epicardial adipose tissue: a prospective study. <i>Cardiovascular Research</i> , 2020 , 116, 2216-2225	9.9	31
188	Low radiation coronary calcium scoring by dual-source CT with tube current optimization based on patient body size. <i>Journal of Cardiovascular Computed Tomography</i> , 2012 , 6, 113-20	2.8	30
187	Image quality and artifacts in coronary CT angiography with dual-source CT: initial clinical experience. <i>Journal of Cardiovascular Computed Tomography</i> , 2008 , 2, 105-14	2.8	30
186	Automated image registration of gated cardiac single-photon emission computed tomography and magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2004 , 19, 283-90	5.6	30
185	Noncalcified coronary plaque volumes in healthy people with a family history of early onset coronary artery disease. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 446-53	3.9	29
184	5-Year Prognostic Value of Quantitative Versus Visual MPI in Subtle Perfusion Defects: Results From REFINE SPECT. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 774-785	8.4	29
183	Society of Cardiovascular Computed Tomography / North American Society of Cardiovascular Imaging - Expert Consensus Document on Coronary CT Imaging of Atherosclerotic Plaque. <i>Journal of Cardiovascular Computed Tomography</i> , 2021 , 15, 93-109	2.8	29
182	Non-invasive prediction of hemodynamically significant coronary artery stenoses by contrast density difference in coronary CT angiography. <i>European Journal of Radiology</i> , 2015 , 84, 1502-1508	4.7	28
181	Combined Quantitative Assessment of Myocardial Perfusion and Coronary Artery Calcium Score by Hybrid 82Rb PET/CT Improves Detection of Coronary Artery Disease. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1345-50	8.9	27
180	Automatic 3D registration of dynamic stress and rest (82)Rb and flurpiridaz F 18 myocardial perfusion PET data for patient motion detection and correction. <i>Medical Physics</i> , 2011 , 38, 6313-26	4.4	27
179	Automated three-dimensional quantification of myocardial perfusion and brain SPECT. <i>Computerized Medical Imaging and Graphics</i> , 2001 , 25, 153-64	7.6	27
178	Perivascular Adipose Tissue and Coronary Atherosclerosis: from Biology to Imaging Phenotyping. <i>Current Atherosclerosis Reports</i> , 2019 , 21, 47	6	27
177	Three-Hour Delayed Imaging Improves Assessment of Coronary F-Sodium Fluoride PET. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 530-535	8.9	27
176	Epicardial adipose tissue is associated with extent of pneumonia and adverse outcomes in patients with COVID-19. <i>Metabolism: Clinical and Experimental</i> , 2021 , 115, 154436	12.7	27

175	Optimization of reconstruction and quantification of motion-corrected coronary PET-CT. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 494-504	2.1	26
174	Quantitative plaque features from coronary computed tomography angiography to identify regional ischemia by myocardial perfusion imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 499-507	4.1	25
173	Automatic registration of misaligned CT attenuation correction maps in Rb-82 PET/CT improves detection of angiographically significant coronary artery disease. <i>Journal of Nuclear Cardiology</i> , 2015 , 22, 1285-95	2.1	25
172	Predictors of 18F-sodium fluoride uptake in patients with stable coronary artery disease and adverse plaque features on computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 58-66	4.1	25
171	Triple-gated motion and blood pool clearance corrections improve reproducibility of coronary F-NaF PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 2610-2620	8.8	24
170	Reproducibility of semi-automatic coronary plaque quantification in coronary CT angiography with sub-mSv radiation dose. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 114-20	2.8	24
169	Feasibility of Coronary F-Sodium Fluoride Positron-Emission Tomography Assessment With the Utilization of Previously Acquired Computed Tomography Angiography. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e008325	3.9	24
168	Automated pericardium delineation and epicardial fat volume quantification from noncontrast CT. <i>Medical Physics</i> , 2015 , 42, 5015-26	4.4	23
167	What have we learned from CONFIRM? Prognostic implications from a prospective multicenter international observational cohort study of consecutive patients undergoing coronary computed tomographic angiography. <i>Journal of Nuclear Cardiology</i> , 2012 , 19, 787-95	2.1	23
166	Effects of endogenous androgens and abdominal fat distribution on the interrelationship between insulin and non-insulin-mediated glucose uptake in females. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 1541-8	5.6	23
165	Data-Driven Gross Patient Motion Detection and Compensation: Implications for Coronary F-NaF PET Imaging. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 830-836	8.9	23
164	Coronary computed tomographic imaging in women: An expert consensus statement from the Society of Cardiovascular Computed Tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 451-466	2.8	23
163	Comparison of invasively measured FFR with FFR derived from coronary CT angiography for detection of lesion-specific ischemia: Results from a PC-based prototype algorithm. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 101-107	2.8	21
162	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. <i>Journal of Nuclear Cardiology</i> , 2018 , 25, 2133-2142	2.1	21
161	Gender differences in the prevalence, severity, and composition of coronary artery disease in the young: a study of 1635 individuals undergoing coronary CT angiography from the prospective, multinational confirm registry. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 490-9	4.1	21
160	Increased pericardial fat accumulation is associated with increased intramyocardial lipid content and duration of highly active antiretroviral therapy exposure in patients infected with human immunodeficiency virus: a 3T cardiovascular magnetic resonance feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 91	6.9	20
159	The relationship between epicardial fat volume and incident coronary artery calcium. <i>Journal of Cardiovascular Computed Tomography</i> , 2011 , 5, 310-6	2.8	20
158	Coronary artery calcification, epicardial fat burden, and cardiovascular events in chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2015 , 10, e0126613	3.7	19

157	Low-density lipoprotein and noncalcified coronary plaque composition in patients with newly diagnosed coronary artery disease on computed tomographic angiography. <i>American Journal of Cardiology</i> , 2010 , 105, 761-6	3	19
156	Computer-aided detection and evaluation of lipid-rich plaque on noncontrast cardiac CT. <i>American Journal of Roentgenology</i> , 2006 , 186, S407-13	5.4	19
155	Coronary calcium scoring from contrast coronary CT angiography using a semiautomated standardized method. <i>Journal of Cardiovascular Computed Tomography</i> , 2015 , 9, 446-53	2.8	18
154	Relationship of epicardial fat volume from noncontrast CT with impaired myocardial flow reserve by positron emission tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2015 , 9, 303-9	2.8	18
153	Improvement in LDL is associated with decrease in non-calcified plaque volume on coronary CTA as measured by automated quantitative software. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 385-390	2.8	18
152	Geometric feature-based multimodal image registration of contrast-enhanced cardiac CT with gated myocardial perfusion SPECT. <i>Medical Physics</i> , 2009 , 36, 5467-79	4.4	18
151	Whole-vessel coronary F-sodium fluoride PET for assessment of the global coronary microcalcification burden. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 47, 1736-1745	8.8	18
150	Epicardial fat and coronary artery disease: Role of cardiac imaging. <i>Atherosclerosis</i> , 2021 , 321, 30-38	3.1	18
149	Motion-Corrected Imaging of the Aortic Valve with F-NaF PET/CT and PET/MRI: A Feasibility Study. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1811-1814	8.9	17
148	Comparison of the Coronary Artery Calcium Score and Number of Calcified Coronary Plaques for Predicting Patient Mortality Risk. <i>American Journal of Cardiology</i> , 2017 , 120, 2154-2159	3	17
147	Intracranial Vessel Wall Segmentation Using Convolutional Neural Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2840-2847	5	17
146	Assessment of left ventricular regional wall motion and ejection fraction with low-radiation dose helical dual-source CT: comparison to two-dimensional echocardiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2011 , 5, 149-57	2.8	17
145	Dual-source coronary computed tomography angiography in patients with atrial fibrillation: initial experience. <i>Journal of Cardiovascular Computed Tomography</i> , 2008 , 2, 172-80	2.8	17
144	Analytical quantification of aortic valve 18F-sodium fluoride PET uptake. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 962-972	2.1	17
143	Segmentation of the thoracic aorta in noncontrast cardiac CT images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 936-49	7.2	16
142	Deep learning-based stenosis quantification from coronary CT Angiography. <i>Proceedings of SPIE</i> , 2019 , 10949,	1.7	16
141	Standardized volumetric plaque quantification and characterization from coronary CT angiography: a head-to-head comparison with invasive intravascular ultrasound. <i>European Radiology</i> , 2019 , 29, 6129-6139	8	15
140	Poor Correlation, Reproducibility, and Agreement Between Volumetric Versus Linear Epicardial Adipose Tissue Measurement: A 3D Computed Tomography Versus 2D Echocardiography Comparison. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1035-1036	8.4	15

139	Automatic alignment of myocardial perfusion PET and 64-slice coronary CT angiography on hybrid PET/CT. <i>Journal of Nuclear Cardiology</i> , 2012 , 19, 482-91	2.1	15
138	Automated knowledge-based detection of nonobstructive and obstructive arterial lesions from coronary CT angiography. <i>Medical Physics</i> , 2013 , 40, 041912	4.4	15
137	Repeatability of quantitative pericoronary adipose tissue attenuation and coronary plaque burden from coronary CT angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2021 , 15, 81-84	2.8	15
136	Prognostically safe stress-only single-photon emission computed tomography myocardial perfusion imaging guided by machine learning: report from REFINE SPECT. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 705-714	4.1	15
135	Achieving very-low-dose radiation exposure in cardiac computed tomography, single-photon emission computed tomography, and positron emission tomography. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 723-34	3.9	14
134	Mortality risk as a function of the ratio of pulmonary trunk to ascending aorta diameter in patients with suspected coronary artery disease. <i>American Journal of Cardiology</i> , 2013 , 111, 1259-63	3	14
133	Direct quantitative in vivo comparison of calcified atherosclerotic plaque on vascular MRI and CT by multimodality image registration. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 345-54	5.6	14
132	Application and Translation of Artificial Intelligence to Cardiovascular Imaging in Nuclear Medicine and Noncontrast CT. <i>Seminars in Nuclear Medicine</i> , 2020 , 50, 357-366	5.4	14
131	Molecular Imaging of Vulnerable Coronary Plaque: A Pathophysiologic Perspective. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 359-364	8.9	13
130	CT-based total vessel plaque analyses improves prediction of hemodynamic significance lesions as assessed by fractional flow reserve in patients with stable angina pectoris. <i>Journal of Cardiovascular Computed Tomography</i> , 2018 , 12, 344-349	2.8	13
129	Automated algorithm for atlas-based segmentation of the heart and pericardium from non-contrast CT. <i>Proceedings of SPIE</i> , 2010 , 7623, 762337	1.7	13
128	Quantitative Burden of COVID-19 Pneumonia on Chest CT Predicts Adverse Outcomes: A Post-Hoc Analysis of a Prospective International Registry. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e200389	8.3	13
127	Machine learning integration of circulating and imaging biomarkers for explainable patient-specific prediction of cardiac events: A prospective study. <i>Atherosclerosis</i> , 2021 , 318, 76-82	3.1	13
126	Increased high-risk coronary plaque burden is associated with arterial stiffness in patients with type 2 diabetes without clinical signs of coronary artery disease: a computed tomography angiography study. <i>Journal of Hypertension</i> , 2017 , 35, 1235-1243	1.9	12
125	Spotty Calcium on Cervicocerebral Computed Tomography Angiography Associates With Increased Risk of Ischemic Stroke. <i>Stroke</i> , 2019 , 50, 859-866	6.7	12
124	Extensive thoracic aortic calcification is an independent predictor of development of coronary artery calcium among individuals with coronary artery calcium score of zero. <i>Atherosclerosis</i> , 2015 , 238, 4-8	3.1	12
123	Coronary F-Fluoride Uptake and Progression of Coronary Artery Calcification. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e011438	3.9	12
122	Pericoronary adipose tissue and quantitative global non-calcified plaque characteristics from CT angiography do not differ in matched South Asian, East Asian and European-origin Caucasian patients with stable chest pain. <i>European Journal of Radiology</i> , 2020 , 125, 108874	4.7	12

121	The Natural history of Epicardial Adipose Tissue Volume and Attenuation: A long-term prospective cohort follow-up study. <i>Scientific Reports</i> , 2020 , 10, 7109	4.9	12
120	Simultaneous Tc-99m PYP/Tl-201 dual-isotope SPECT myocardial imaging in patients with suspected cardiac amyloidosis. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 28-37	2.1	12
119	Transient ischaemic dilation and post-stress wall motion abnormality increase risk in patients with less than moderate ischaemia: analysis of the REFINE SPECT registry. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 567-575	4.1	12
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