Damini Dey

List of Publications by Year
in descending order

300	11,898	59	90
papers	citations	h-index	g-index
		22099	45213

332	332	332	8149
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine learning for prediction of all-cause mortality in patients with suspected coronary artery disease: a 5-year multicentre prospective registry analysis. European Heart Journal, 2017, 38, ehw188.	1.0	447
2	Artificial Intelligence in Cardiovascular Imaging. Journal of the American College of Cardiology, 2019, 73, 1317-1335.	1.2	374
3	Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction. Circulation, 2020, 141, 1452-1462.	1.6	348
4	Coronary plaque quantification and fractional flow reserve by coronary computed tomography angiography identify ischaemia-causing lesions. European Heart Journal, 2016, 37, 1220-1227.	1.0	257
5	Deep Learning for Prediction of Obstructive Disease From Fast Myocardial Perfusion SPECT. JACC: Cardiovascular Imaging, 2018, 11, 1654-1663.	2.3	246
6	Increased volume of epicardial fat is an independent risk factor for accelerated progression of sub-clinical coronary atherosclerosis. Atherosclerosis, 2012, 220, 223-230.	0.4	212
7	Pericardial Fat Burden on ECG-Gated Noncontrast CT in Asymptomatic Patients Who Subsequently Experience Adverse Cardiovascular Events. JACC: Cardiovascular Imaging, 2010, 3, 352-360.	2.3	210
8	Pericoronary Adipose Tissue Computed Tomography Attenuation and High-Risk Plaque Characteristics in Acute Coronary Syndrome Compared With Stable Coronary Artery Disease. JAMA Cardiology, 2018, 3, 858.	3.0	186
9	Automated Three-dimensional Quantification of Noncalcified Coronary Plaque from Coronary CT Angiography: Comparison with Intravascular US. Radiology, 2010, 257, 516-522.	3.6	177
10	Prognostic Value of Combined Clinical andÂMyocardial Perfusion Imaging Data Using Machine Learning. JACC: Cardiovascular Imaging, 2018, 11, 1000-1009.	2.3	172
11	Epicardial adipose tissue density and volume are related to subclinical atherosclerosis, inflammation and major adverse cardiac events in asymptomatic subjects. Journal of Cardiovascular Computed Tomography, 2018, 12, 67-73.	0.7	143
12	Deep Learning for Quantification of Epicardial and Thoracic Adipose Tissue From Non-Contrast CT. IEEE Transactions on Medical Imaging, 2018, 37, 1835-1846.	5.4	135
13	Integrated prediction of lesion-specific ischaemia from quantitative coronary CT angiography using machine learning: a multicentre study. European Radiology, 2018, 28, 2655-2664.	2.3	135
14	Increased Pericardial Fat Volume Measured From Noncontrast CT Predicts Myocardial Ischemia by SPECT. JACC: Cardiovascular Imaging, 2010, 3, 1104-1112.	2.3	133
15	Relationship between changes in pericoronary adipose tissue attenuation and coronary plaque burden quantified from coronary computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2019, 20, 636-643.	0.5	129
16	Peri-Coronary Adipose Tissue Density IsÂAssociated With 18F-Sodium Fluoride Coronary Uptake in Stable Patients WithÂHigh-Risk Plaques. JACC: Cardiovascular Imaging, 2019, 12, 2000-2010.	2.3	129
17	Computer-aided non-contrast CT-based quantification of pericardial and thoracic fat and their associations with coronary calcium and metabolic syndrome. Atherosclerosis, 2010, 209, 136-141.	0.4	123
18	Improved accuracy of myocardial perfusion SPECT for detection of coronary artery disease by machine learning in a large population. Journal of Nuclear Cardiology, 2013, 20, 553-562.	1.4	122

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19	Society of Cardiovascular Computed Tomography / North American Society of Cardiovascular Imaging â€“ Expert Consensus Document on Coronary CT Imaging of Atherosclerotic Plaque. Journal of Cardiovascular Computed Tomography, 2021, 15, 93-109.	0.7	117
20	Deep Learning Analysis of Upright-Supine High-Efficiency SPECT Myocardial Perfusion Imaging for Prediction of Obstructive Coronary Artery Disease: A Multicenter Study. Journal of Nuclear Medicine, 2019, 60, 664-670.	2.8	113
21	Prediction of revascularization after myocardial perfusion SPECT by machine learning in a large population. Journal of Nuclear Cardiology, 2015, 22, 877-884.	1.4	110
22	Automated 3-dimensional quantification of noncalcified and calcified coronary plaque from coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2009, 3, 372-382.	0.7	100
23	Coronary 18F-Sodium Fluoride Uptake Predicts Outcomes in Patients With Coronary Artery Disease. Journal of the American College of Cardiology, 2020, 75, 3061-3074.	1.2	100
24	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. Atherosclerosis, 2011, 218, 363-368.	0.4	97
25	Guideline for minimizing radiation exposure during acquisition of coronary artery calcium scans with the use of multidetector computed tomography. Journal of Cardiovascular Computed Tomography, 2011, 5, 75-83.	0.7	96
26	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. Journal of Nuclear Medicine, 2012, 53, 575-583.	2.8	96
27	Lesion-Specific and Vessel-Related Determinants of Fractional Flow Reserve Beyond Coronary Artery Stenosis. JACC: Cardiovascular Imaging, 2018, 11, 521-530.	2.3	95
28	Coronary artery calcium scoring using a reduced tube voltage and radiation dose protocol with dual-source computed tomography. Journal of Cardiovascular Computed Tomography, 2009, 3, 394-400.	0.7	92
29	Automated Quantitation of Pericardiac Fat From Noncontrast CT. Investigative Radiology, 2008, 43, 145-153.	3.5	90
30	Quantitative global plaque characteristics from coronary computed tomography angiography for the prediction of future cardiac mortality during long-term follow-up. European Heart Journal Cardiovascular Imaging, 2017, 18, 1331-1339.	0.5	90
31	Myocardial Infarction Associates With a Distinct Pericoronary Adipose Tissue Radiomic Phenotype. JACC: Cardiovascular Imaging, 2020, 13, 2371-2383.	2.3	86
32	Deep learning-enabled coronary CT angiography for plaque and stenosis quantification and cardiac risk prediction: an international multicentre study. The Lancet Digital Health, 2022, 4, e256-e265.	5.9	85
33	Moving Beyond Binary Grading of Coronary Arterial Stenoses on Coronary Computed Tomographic Angiography. JACC: Cardiovascular Imaging, 2008, 1, 460-471.	2.3	83
34	Fully Automated CT Quantification of Epicardial Adipose Tissue by Deep Learning: A Multicenter Study. Radiology: Artificial Intelligence, 2019, 1, e190045.	3.0	83
35	Vulnerable plaque features on coronary CT angiography as markers of inducible regional myocardial hypoperfusion from severe coronary artery stenoses. Atherosclerosis, 2011, 219, 588-595.	0.4	79
36	Cardiac imaging: working towards fully-automated machine analysis & interpretation. Expert Review of Medical Devices, 2017, 14, 197-212.	1.4	78

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37	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. Cardiovascular Research, 2020, 116, 2216-2225.	1.8	78
38	Deep Learningâ€"Based Quantification of Epicardial Adipose Tissue Volume and Attenuation Predicts Major Adverse Cardiovascular Events in Asymptomatic Subjects. Circulation: Cardiovascular Imaging, 2020, 13, e009829.	1.3	77
39	Quantitative Analysis of Myocardial Perfusion SPECT Anatomically Guided by Coregistered 64-Slice Coronary CT Angiography. Journal of Nuclear Medicine, 2009, 50, 1621-1630.	2.8	76
40	Motion Correction of ¹⁸F-NaF PET for Imaging Coronary Atherosclerotic Plaques. Journal of Nuclear Medicine, 2016, 57, 54-59.	2.8	74
41	Rationale and design of the REgistry of Fast Myocardial Perfusion Imaging with NExt generation SPECT (REFINE SPECT). Journal of Nuclear Cardiology, 2020, 27, 1010-1021.	1.4	74
42	Automatic fusion of freehand endoscopic brain images to three-dimensional surfaces: creating stereoscopic panoramas. IEEE Transactions on Medical Imaging, 2002, 21, 23-30.	5.4	73
43	Weight change modulates epicardial fat burden: A 4-year serial study with non-contrast computed tomography. Atherosclerosis, 2012, 220, 139-144.	0.4	73
44	Structured learning algorithm for detection of nonobstructive and obstructive coronary plaque lesions from computed tomography angiography. Journal of Medical Imaging, 2015, 2, 014003.	0.8	71
45	Association of Epicardial Fat, Hypertension, Subclinical Coronary Artery Disease, and Metabolic Syndrome With Left Ventricular Diastolic Dysfunction. American Journal of Cardiology, 2012, 110, 1793-1798.	0.7	70
46	Quantification and characterisation of coronary artery plaque volume and adverse plaque features by coronary computed tomographic angiography: a direct comparison to intravascular ultrasound. European Radiology, 2013, 23, 2109-2117.	2.3	70
47	5-Year Prognostic Value of QuantitativeÂVersus Visual MPI in SubtleÂPerfusionÂDefects. JACC: Cardiovascular Imaging, 2020, 13, 774-785.	2.3	70
48	Machine learning predicts per-vessel early coronary revascularization after fast myocardial perfusion SPECT: results from multicentre REFINE SPECT registry. European Heart Journal Cardiovascular Imaging, 2020, 21, 549-559.	0.5	70
49	Improved Accuracy of Myocardial Perfusion SPECT for the Detection of Coronary Artery Disease Using a Support Vector Machine Algorithm. Journal of Nuclear Medicine, 2013, 54, 549-555.	2.8	69
50	Comparison of the Extent and Severity of Myocardial Perfusion Defects Measured by CT Coronary Angiography and SPECT Myocardial Perfusion Imaging. JACC: Cardiovascular Imaging, 2010, 3, 1010-1019.	2.3	68
51	Comparison of quantitative atherosclerotic plaque burden from coronary CT angiography in patients with first acute coronary syndrome and stable coronary artery disease. Journal of Cardiovascular Computed Tomography, 2014, 8, 368-374.	0.7	68
52	Epicardial and thoracic fat - Noninvasive measurement and clinical implications. Cardiovascular Diagnosis and Therapy, 2012, 2, 85-93.	0.7	68
53	Epicardial fat volume and concurrent presence of both myocardial ischemia and obstructive coronary artery disease. Atherosclerosis, 2012, 221, 422-426.	0.4	67
54	Relation of Diagonal Ear Lobe Crease to the Presence, Extent, and Severity of Coronary Artery Disease Determined by Coronary Computed Tomography Angiography. American Journal of Cardiology, 2012, 109, 1283-1287.	0.7	67

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55	Automated Quantitative Plaque Burden from Coronary CT Angiography Noninvasively Predicts Hemodynamic Significance by using Fractional Flow Reserve in Intermediate Coronary Lesions. Radiology, 2015, 276, 408-415.	3.6	67
56	Perivascular Adipose Tissue and Coronary Atherosclerosis: from Biology to Imaging Phenotyping. Current Atherosclerosis Reports, 2019, 21, 47.	2.0	67
57	Association of Lipoprotein(a) With Atherosclerotic Plaque Progression. Journal of the American College of Cardiology, 2022, 79, 223-233.	1.2	66
58	Effect of the ratio of coronary arterial lumen volume to left ventricle myocardial mass derived from coronary CT angiography on fractional flow reserve. Journal of Cardiovascular Computed Tomography, 2017, 11, 429-436.	0.7	65
59	Advances in Nuclear Cardiac Instrumentation with a View Towards Reduced Radiation Exposure. Current Cardiology Reports, 2012, 14, 208-216.	1.3	63
60	State-of-the-art in CT hardware and scan modes for cardiovascular CT. Journal of Cardiovascular Computed Tomography, 2012, 6, 154-163.	0.7	62
61	MR/PET Imaging of the CardiovascularÂSystem. JACC: Cardiovascular Imaging, 2017, 10, 1165-1179.	2.3	61
62	Automated 3-dimensional registration of stand-alone (18)F-FDG whole-body PET with CT. Journal of Nuclear Medicine, 2003, 44, 1156-67.	2.8	61
63	Threshold for the Upper Normal Limit of Indexed Epicardial Fat Volume: Derivation in a Healthy Population and Validation in an Outcome-Based Study. American Journal of Cardiology, 2011, 108, 1680-1685.	0.7	58
64	Impact of Family History of Coronary Artery Disease in Young Individuals (from the CONFIRM Registry). American Journal of Cardiology, 2013, 111, 1081-1086.	0.7	58
65	Image denoising of low-radiation dose coronary CT angiography by an adaptive block-matching 3D algorithm. Proceedings of SPIE, 2013, , .	0.8	58
66	Algorithm for radiation dose reduction with helical dual source coronary computed tomography angiography in clinical practice. Journal of Cardiovascular Computed Tomography, 2008, 2, 311-322.	0.7	57
67	Relationship of epicardial fat volume to coronary plaque, severe coronary stenosis, and high-risk coronary plaque features assessed by coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2013, 7, 125-132.	0.7	56
68	Automatic Valve Plane Localization in Myocardial Perfusion SPECT/CT by Machine Learning: Anatomic and Clinical Validation. Journal of Nuclear Medicine, 2017, 58, 961-967.	2.8	56
69	Automated quantitative Rb-82 3D PET/CT myocardial perfusion imaging: Normal limits and correlation with invasive coronary angiography. Journal of Nuclear Cardiology, 2012, 19, 265-276.	1.4	55
70	Relationship Between Quantitative Adverse Plaque Features From Coronary Computed Tomography Angiography and Downstream Impaired Myocardial Flow Reserve by ¹³ N-Ammonia Positron Emission Tomography. Circulation: Cardiovascular Imaging, 2015, 8, e003255.	1.3	55
71	Epicardial fat and coronary artery disease: Role of cardiac imaging. Atherosclerosis, 2021, 321, 30-38.	0.4	54
72	Pericoronary adipose tissue computed tomography attenuation distinguishes different stages of coronary artery disease: a cross-sectional study. European Heart Journal Cardiovascular Imaging, 2021, 22, 298-306.	0.5	52

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73	Predicting success of prospective and retrospective gating with dual-source coronary computed tomography angiography: Development of selection criteria and initial experience. Journal of Cardiovascular Computed Tomography, 2008, 2, 81-90.	0.7	51
74	Reproducibility of coronary artery plaque volume and composition quantification by 64-detector row coronary computed tomographic angiography: An intraobserver, interobserver, and interscan variability study. Journal of Cardiovascular Computed Tomography, 2009, 3, 312-320.	0.7	51
75	Interscan reproducibility of computer-aided epicardial and thoracic fat measurement from noncontrast cardiac CT. Journal of Cardiovascular Computed Tomography, 2011, 5, 172-179.	0.7	51
76	Combined Quantitative Assessment of Myocardial Perfusion and Coronary Artery Calcium Score by Hybrid ⁸²Rb PET/CT Improves Detection of Coronary Artery Disease. Journal of Nuclear Medicine, 2015, 56, 1345-1350.	2.8	50
77	Standardized volumetric plaque quantification and characterization from coronary CT angiography: a head-to-head comparison with invasive intravascular ultrasound. European Radiology, 2019, 29, 6129-6139.	2.3	50
78	Predictors of 18F-sodium fluoride uptake in patients with stable coronary artery disease and adverse plaque features on computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2020, 21, 58-66.	0.5	50
79	Whole-vessel coronary 18F-sodium fluoride PET for assessment of the global coronary microcalcification burden. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1736-1745.	3.3	50
80	Interscan reproducibility of quantitative coronary plaque volume and composition from CT coronary angiography using an automated method. European Radiology, 2014, 24, 2300-2308.	2.3	49
81	Epicardial adipose tissue volume but not density is an independent predictor for myocardial ischemia. Journal of Cardiovascular Computed Tomography, 2016, 10, 141-149.	0.7	49
82	Automatic determination of cardiovascular risk by CT attenuation correction maps in Rb-82 PET/CT. Journal of Nuclear Cardiology, 2018, 25, 2133-2142.	1.4	49
83	Epicardial adipose tissue is associated with extent of pneumonia and adverse outcomes in patients with COVID-19. Metabolism: Clinical and Experimental, 2021, 115, 154436.	1.5	48
84	Noncalcified Coronary Plaque Volumes in Healthy People With a Family History of Early Onset Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2014, 7, 446-453.	1.3	47
85	Imaging of coronary atherosclerosis â€” evolution towards new treatment strategies. Nature Reviews Cardiology, 2016, 13, 533-548.	6.1	47
86	Pericoronary Adipose Tissue Attenuation, Low-Attenuation Plaque Burden, and 5-Year Risk of Myocardial Infarction. JACC: Cardiovascular Imaging, 2022, 15, 1078-1088.	2.3	46
87	Dual-Gated Motion-Frozen Cardiac PET with Flurpiridaz F 18. Journal of Nuclear Medicine, 2015, 56, 1876-1881.	2.8	45
88	Triple-gated motion and blood pool clearance corrections improve reproducibility of coronary 18F-NaF PET. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2610-2620.	3.3	45
89	Three-Hour Delayed Imaging Improves Assessment of Coronary ¹⁸F-Sodium Fluoride PET. Journal of Nuclear Medicine, 2019, 60, 530-535.	2.8	44
90	Clinical Deployment of Explainable Artificial Intelligence of SPECT for Diagnosis of Coronary Artery Disease. JACC: Cardiovascular Imaging, 2022, 15, 1091-1102.	2.3	44

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91	Optimization of reconstruction and quantification of motion-corrected coronary PET-CT. Journal of Nuclear Cardiology, 2020, 27, 494-504.	1.4	43
92	Coronary ¹⁸ F-Fluoride Uptake and Progression of Coronary Artery Calcification. Circulation: Cardiovascular Imaging, 2020, 13, e011438.	1.3	43
93	Image quality and artifacts in coronary CT angiography with dual-source CT: Initial clinical experience. Journal of Cardiovascular Computed Tomography, 2008, 2, 105-114.	0.7	42
94	Enhanced definition PET for cardiac imaging. Journal of Nuclear Cardiology, 2010, 17, 414-426.	1.4	41
95	Coronary computed tomographic imaging in women: An expert consensus statement from the Society of Cardiovascular Computed Tomography. Journal of Cardiovascular Computed Tomography, 2018, 12, 451-466.	0.7	41
96	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. Journal of Nuclear Cardiology, 2010, 17, 791-802.	1.4	40
97	Motion frozen 18F-FDG cardiac PET. Journal of Nuclear Cardiology, 2011, 18, 259-266.	1.4	40
98	Data-Driven Gross Patient Motion Detection and Compensation: Implications for Coronary ¹⁸F-NaF PET Imaging. Journal of Nuclear Medicine, 2019, 60, 830-836.	2.8	39
99	Artificial Intelligence in Cardiovascular Imaging for Risk Stratification in Coronary Artery Disease. Radiology: Cardiothoracic Imaging, 2021, 3, e200512.	0.9	39
100	Prognostically safe stress-only single-photon emission computed tomography myocardial perfusion imaging guided by machine learning: report from REFINE SPECT. European Heart Journal Cardiovascular Imaging, 2021, 22, 705-714.	0.5	38
101	Intramyocardial Hemorrhage and the â€œWave Frontâ€•of Reperfusion Injury Compromising Myocardial Salvage. Journal of the American College of Cardiology, 2022, 79, 35-48.	1.2	38
102	Machine learning integration of circulating and imaging biomarkers for explainable patient-specific prediction of cardiac events: A prospective study. Atherosclerosis, 2021, 318, 76-82.	0.4	37
103	Non-invasive prediction of hemodynamically significant coronary artery stenoses by contrast density difference in coronary CT angiography. European Journal of Radiology, 2015, 84, 1502-1508.	1.2	36
104	Feasibility of Coronary ¹⁸ F-Sodium Fluoride Positron-Emission Tomography Assessment With the Utilization of Previously Acquired Computed Tomography Angiography. Circulation: Cardiovascular Imaging, 2018, 11, e008325.	1.3	36
105	What have we learned from CONFIRM? Prognostic implications from a prospective multicenter international observational cohort study of consecutive patients undergoing coronary computed tomographic angiography. Journal of Nuclear Cardiology, 2012, 19, 787-795.	1.4	35
106	Repeatability of quantitative pericoronary adipose tissue attenuation and coronary plaque burden from coronary CT angiography. Journal of Cardiovascular Computed Tomography, 2021, 15, 81-84.	0.7	35
107	Automated three-dimensional quantification of myocardial perfusion and brain SPECT. Computerized Medical Imaging and Graphics, 2001, 25, 153-164.	3.5	34
108	Automated image registration of gated cardiac single-photon emission computed tomography and magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2004, 19, 283-290.	1.9	34

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109	Automatic 3D registration of dynamic stress and rest ⁸²Rb and flurpiridaz F 18 myocardial perfusion PET data for patient motion detection and correction. Medical Physics, 2011, 38, 6313-6326.	1.6	34
110	Effects of Endogenous Androgens and Abdominal Fat Distribution on the Interrelationship Between Insulin and Non-Insulin-Mediated Glucose Uptake in Females. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 1541-1548.	1.8	34
111	Reproducibility of semi-automatic coronary plaque quantification in coronary CT angiography with sub-mSv radiation dose. Journal of Cardiovascular Computed Tomography, 2016, 10, 114-120.	0.7	34
112	Machine Learning with ¹⁸F-Sodium Fluoride PET and Quantitative Plaque Analysis on CT Angiography for the Future Risk of Myocardial Infarction. Journal of Nuclear Medicine, 2022, 63, 158-165.	2.8	34
113	Low radiation coronary calcium scoring by dual-source CT with tube current optimization based on patient body size. Journal of Cardiovascular Computed Tomography, 2012, 6, 113-120.	0.7	33
114	Automatic registration of misaligned CT attenuation correction maps in Rb-82 PET/CT improves detection of angiographically significant coronary artery disease. Journal of Nuclear Cardiology, 2015, 22, 1285-1295.	1.4	33
115	Metabolic syndrome, fatty liver, and artificial intelligence-based epicardial adipose tissue measures predict long-term risk of cardiac events: a prospective study. Cardiovascular Diabetology, 2021, 20, 27.	2.7	33
116	Automated pericardium delineation and epicardial fat volume quantification from noncontrast CT. Medical Physics, 2015, 42, 5015-5026.	1.6	32
117	Analytical quantification of aortic valve 18F-sodium fluoride PET uptake. Journal of Nuclear Cardiology, 2020, 27, 962-972.	1.4	32
118	Quantitative Burden of COVID-19 Pneumonia at Chest CT Predicts Adverse Outcomes: A Post Hoc Analysis of a Prospective International Registry. Radiology: Cardiothoracic Imaging, 2020, 2, e200389.	0.9	32
119	Native Aortic Valve Disease Progression and Bioprosthetic Valve Degeneration in Patients With Transcatheter Aortic Valve Implantation. Circulation, 2021, 144, 1396-1408.	1.6	32
120	Contrast-enhanced computed tomography assessment of aortic stenosis. Heart, 2021, 107, 1905-1911.	1.2	32
121	Coronary Artery and Cardiac Disease in Patients With Type 2 Myocardial Infarction: A Prospective Cohort Study. Circulation, 2022, 145, 1188-1200.	1.6	32
122	Quantitative plaque features from coronary computed tomography angiography to identify regional ischemia by myocardial perfusion imaging. European Heart Journal Cardiovascular Imaging, 2017, 18, 499-507.	0.5	31
123	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. Journal of Cardiovascular Computed Tomography, 2018, 12, 101-107.	0.7	31
124	Intracranial Vessel Wall Segmentation Using Convolutional Neural Networks. IEEE Transactions on Biomedical Engineering, 2019, 66, 2840-2847.	2.5	31
125	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. European Heart Journal Cardiovascular Imaging, 2015, 16, 490-499.	0.5	29
126	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. European Journal of Radiology, 2020, 125, 108874.	1.2	29

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127	Plaque Rupture, Compared With Plaque Erosion, Is Associated With a Higher Level of Pancoronary Inflammation. JACC: Cardiovascular Imaging, 2022, 15, 828-839.	2.3	29
128	Impact of Early Revascularization on Major Adverse Cardiovascular Events inÂRelation to Automatically QuantifiedÂIschemia. JACC: Cardiovascular Imaging, 2021, 14, 644-653.	2.3	28
129	Sex-Specific Computed Tomography Coronary Plaque Characterization and Risk of Myocardial Infarction. JACC: Cardiovascular Imaging, 2021, 14, 1804-1814.	2.3	28
130	Comparison of the Coronary Artery Calcium Score and Number of Calcified Coronary Plaques for Predicting Patient Mortality Risk. American Journal of Cardiology, 2017, 120, 2154-2159.	0.7	27
131	Poor Correlation, Reproducibility, and Agreement Between Volumetric Versus Linear Epicardial Adipose Tissue Measurement. JACC: Cardiovascular Imaging, 2018, 11, 1035-1036.	2.3	27
132	Deep learning-based stenosis quantification from coronary CT angiography. , 2019, 10949, .		27
133	The relationship between epicardial fat volume and incident coronary artery calcium. Journal of Cardiovascular Computed Tomography, 2011, 5, 310-316.	0.7	26
134	Observer repeatability and interscan reproducibility of 18F-sodium fluoride coronary microcalcification activity. Journal of Nuclear Cardiology, 2022, 29, 126-135.	1.4	26
135	Determining a minimum set of variables for machine learning cardiovascular event prediction: results from REFINE SPECT registry. Cardiovascular Research, 2022, 118, 2152-2164.	1.8	26
136	Coronary calcium scoring from contrast coronary CT angiography using a semiautomated standardized method. Journal of Cardiovascular Computed Tomography, 2015, 9, 446-453.	0.7	25
137	Simultaneous Tc-99m PYP/Tl-201 dual-isotope SPECT myocardial imaging in patients with suspected cardiac amyloidosis. Journal of Nuclear Cardiology, 2020, 27, 28-37.	1.4	25
138	The Natural history of Epicardial Adipose Tissue Volume and Attenuation: A long-term prospective cohort follow-up study. Scientific Reports, 2020, 10, 7109.	1.6	25
139	Coronary Plaque Burden and Adverse Plaque Characteristics Are Increased in Healthy Relatives of Patients With EarlyÂOnset Coronary Artery Disease. JACC: Cardiovascular Imaging, 2017, 10, 1128-1135.	2.3	24
140	Imaging of the Pericoronary Adipose Tissue (PCAT) Using Cardiac Computed Tomography. Journal of Thoracic Imaging, 2021, 36, 149-161.	0.8	24
141	Reproducibility of quantitative plaque measurement in advanced coronary artery disease. Journal of Cardiovascular Computed Tomography, 2021, 15, 333-338.	0.7	24
142	Radiomics-Based Precision PhenotypingÂIdentifies Unstable Coronary Plaques From Computed Tomography Angiography. JACC: Cardiovascular Imaging, 2022, 15, 859-871.	2.3	24
143	Bypass Grafting and Native Coronary Artery Disease Activity. JACC: Cardiovascular Imaging, 2022, 15, 875-887.	2.3	24
144	Low-Density Lipoprotein and Noncalcified Coronary Plaque Composition in Patients With Newly Diagnosed Coronary Artery Disease on Computed Tomographic Angiography. American Journal of Cardiology, 2010, 105, 761-766.	0.7	23

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145	Segmentation of the Thoracic Aorta in Noncontrast Cardiac CT Images. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 936-949.	3.9	23
146	Coronary Artery Calcification, Epicardial Fat Burden, and Cardiovascular Events in Chronic Obstructive Pulmonary Disease. PLoS ONE, 2015, 10, e0126613.	1.1	23
147	Relationship of epicardial fat volume from noncontrast CT with impaired myocardial flow reserve by positron emission tomography. Journal of Cardiovascular Computed Tomography, 2015, 9, 303-309.	0.7	23
148	Motion-Corrected Imaging of the Aortic Valve with ¹⁸F-NaF PET/CT and PET/MRI: A Feasibility Study. Journal of Nuclear Medicine, 2017, 58, 1811-1814.	2.8	23
149	Pericoronary Adipose Tissue Attenuation Is Associated with High-Risk Plaque and Subsequent Acute Coronary Syndrome in Patients with Stable Coronary Artery Disease. Cells, 2021, 10, 1143.	1.8	23
150	Application and Translation of Artificial Intelligence to Cardiovascular Imaging in Nuclear Medicine and Noncontrast CT. Seminars in Nuclear Medicine, 2020, 50, 357-366.	2.5	23
151	Computer-Aided Detection and Evaluation of Lipid-Rich Plaque on Noncontrast Cardiac CT. American Journal of Roentgenology, 2006, 186, S407-S413.	1.0	22
152	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. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 91.	1.6	22
153	Spotty Calcium on Cervicocerebral Computed Tomography Angiography Associates With Increased Risk of Ischemic Stroke. Stroke, 2019, 50, 859-866.	1.0	22
154	Geometric featureâ€based multimodal image registration of contrastâ€enhanced cardiac CT with gated myocardial perfusion SPECT. Medical Physics, 2009, 36, 5467-5479.	1.6	21
155	Assessment of left ventricular regional wall motion and ejection fraction with low-radiation dose helical dual-source CT: Comparison to two-dimensional echocardiography. Journal of Cardiovascular Computed Tomography, 2011, 5, 149-157.	0.7	21
156	Automatic alignment of myocardial perfusion PET and 64-slice coronary CT angiography on hybrid PET/CT. Journal of Nuclear Cardiology, 2012, 19, 482-491.	1.4	21
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