James K Min

List of Publications by Citations

172 papers	12,144 citations	53 h-index	109 g-index
194 ext. papers	14,983 ext. citations	5.7 avg, IF	5.83 L-index

#	Paper	IF	Citations
172	Diagnostic performance of 64-multidetector row coronary computed tomographic angiography for evaluation of coronary artery stenosis in individuals without known coronary artery disease: results from the prospective multicenter ACCURACY (Assessment by Coronary Computed Tomographic	15.1	1570
171	Diagnosis of ischemia-causing coronary stenoses by noninvasive fractional flow reserve computed from coronary computed tomographic angiograms. Results from the prospective multicenter DISCOVER-FLOW (Diagnosis of Ischemia-Causing Stenoses Obtained Via Noninvasive Fractional	15.1	804
170	ACCF/SCCT/ACR/AHA/ASE/ASNC/NASCI/SCAI/SCMR 2010 appropriate use criteria for cardiac computed tomography. A report of the American College of Cardiology Foundation Appropriate Use Criteria Task Force, the Society of Cardiovascular Computed Tomography, the American	15.1	767
169	Diagnostic accuracy of fractional flow reserve from anatomic CT angiography. *JAMA - Journal of the American Medical Association*, **2012**, 308, 1237-45	27.4	743
168	Prognostic value of multidetector coronary computed tomographic angiography for prediction of all-cause mortality. *Journal of the American College of Cardiology*, **2007**, 50, 1161-70	15.1	735
167	Age- and sex-related differences in all-cause mortality risk based on coronary computed tomography angiography findings results from the International Multicenter CONFIRM (Coronary CT Angiography Evaluation for Clinical Outcomes: An International Multicenter Registry) of 23,854 patients without known coronary artery disease. *Journal of the American College of Cardiology*,	15.1	528
166	Anatomical and procedural features associated with aortic root rupture during balloon-expandable transcatheter aortic valve replacement. *Circulation*, **2013**, 128, 244-53	16.7	354
165	Cardiac 3D Printing and its Future Directions. *JACC: Cardiovascular Imaging*, **2017**, 10, 171-184	8.4	277
164	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, 500-507	9.5	275
163	Prevalence and severity of coronary artery disease and adverse events among symptomatic patients with coronary artery calcification scores of zero undergoing coronary computed tomography angiography: results from the CONFIRM (Coronary CT Angiography Evaluation for Clinical Outcomes: An International Multicenter) registry. *Journal of the American College of*	15.1	240
162	Atherosclerotic plaque characteristics by CT angiography identify coronary lesions that cause ischemia: a direct comparison to fractional flow reserve. *JACC: Cardiovascular Imaging*, **2015**, 8, 1-10	8.4	183
161	Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging. *European Heart Journal*, **2019**, 40, 1975-1986	9.5	180
160	Effects of Statins on Coronary Atherosclerotic Plaques: The PARADIGM Study. *JACC: Cardiovascular Imaging*, **2018**, 11, 1475-1484	8.4	177
159	Comparison of Coronary CT Angiography, SPECT, PET, and Hybrid Imaging for Diagnosis of Ischemic Heart Disease Determined by Fractional Flow Reserve. *JAMA Cardiology*, **2017**, 2, 1100-1107	16.2	176
158	Mortality risk in symptomatic patients with nonobstructive coronary artery disease: a prospective 2-center study of 2,583 patients undergoing 64-detector row coronary computed tomographic angiography. *Journal of the American College of Cardiology*, **2011**, 58, 510-9	15.1	170
157	Incremental prognostic value of cardiac computed tomography in coronary artery disease using CONFIRM: COroNary computed tomography angiography evaluation for clinical outcomes: an InteRnational Multicenter registry. *Circulation: Cardiovascular Imaging*, **2011**, 4, 463-72	3.9	161
156	Coronary Atherosclerotic Precursors of Acute Coronary Syndromes. *Journal of the American College of Cardiology*, **2018**, 71, 2511-2522	15.1	161

155	Optimized prognostic score for coronary computed tomographic angiography: results from the CONFIRM registry (COronary CT Angiography EvaluatioN For Clinical Outcomes: An InteRnational Multicenter Registry). *Journal of the American College of Cardiology*, **2013**, 62, 468-76	15.1	156
154	Predicting LVOT Obstruction in Transcatheter Mitral Valve Implantation: Concept of the Neo-LVOT. *JACC: Cardiovascular Imaging*, **2017**, 10, 482-485	8.4	155
153	Noninvasive Fractional Flow Reserve Derived From Coronary CT Angiography: Clinical Data and Scientific Principles. *JACC: Cardiovascular Imaging*, **2015**, 8, 1209-1222	8.4	144
152	Determinants of coronary calcium conversion among patients with a normal coronary calcium scan: what is the "warranty period" for remaining normal?. *Journal of the American College of Cardiology*, **2010**, 55, 1110-7	15.1	143
151	The present state of coronary computed tomography angiography a process in evolution. *Journal of the American College of Cardiology*, **2010**, 55, 957-65	15.1	134
150	Diagnostic performance of cardiac imaging methods to diagnose ischaemia-causing coronary artery disease when directly compared with fractional flow reserve as a reference standard: a meta-analysis. *European Heart Journal*, **2017**, 38, 991-998	9.5	134
149	Comparative definitions for moderate-severe ischemia in stress nuclear, echocardiography, and magnetic resonance imaging. *JACC: Cardiovascular Imaging*, **2014**, 7, 593-604	8.4	127
148	Rationale and design of the CONFIRM (COronary CT Angiography EvaluatioN For Clinical Outcomes: An InteRnational Multicenter) Registry. *Journal of Cardiovascular Computed Tomography*, **2011**, 5, 84-92	2.8	120
147	A novel noninvasive technology for treatment planning using virtual coronary stenting and computed tomography-derived computed fractional flow reserve. *JACC: Cardiovascular Interventions*, **2014**, 7, 72-8	5	116
146	Aggregate plaque volume by coronary computed tomography angiography is superior and incremental to luminal narrowing for diagnosis of ischemic lesions of intermediate stenosis severity. *Journal of the American College of Cardiology*, **2013**, 62, 460-7	15.1	108
145	New Applications of Cardiac Computed Tomography: Dual-Energy, Spectral, and Molecular CT Imaging. *JACC: Cardiovascular Imaging*, **2015**, 8, 710-23	8.4	108
144	Prognostic and therapeutic implications of statin and aspirin therapy in individuals with nonobstructive coronary artery disease: results from the CONFIRM (COronary CT Angiography EvaluatioN For Clinical Outcomes: An InteRnational Multicenter registry) registry. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 981-9	9.4	101
143	Patient-centered imaging: shared decision making for cardiac imaging procedures with exposure to ionizing radiation. *Journal of the American College of Cardiology*, **2014**, 63, 1480-9	15.1	97
142	Rationale and design of the DeFACTO (Determination of Fractional Flow Reserve by Anatomic Computed Tomographic AngiOgraphy) study. *Journal of Cardiovascular Computed Tomography*, **2011**, 5, 301-9	2.8	95
141	Maximization of the usage of coronary CTA derived plaque information using a machine learning based algorithm to improve risk stratification; insights from the CONFIRM registry. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 204-209	2.8	94
140	Differences in prevalence, extent, severity, and prognosis of coronary artery disease among patients with and without diabetes undergoing coronary computed tomography angiography: results from 10,110 individuals from the CONFIRM (COronary CT Angiography EvaluatioN For Clinical Outcomes): an InteRnational Multicenter Registry. *Diabetes Care*, **2012**, 35, 1787-94	14.6	85
139	Effect of Plaque Burden and Morphology on Myocardial Blood Flow and Fractional Flow Reserve. *Journal of the American College of Cardiology*, **2018**, 71, 499-509	15.1	82
138	Usefulness of noninvasive fractional flow reserve computed from coronary computed tomographic angiograms for intermediate stenoses confirmed by quantitative coronary angiography. *American Journal of Cardiology*, **2012**, 110, 971-6	3	73

137	Costs and clinical outcomes after coronary multidetector CT angiography in patients without known coronary artery disease: comparison to myocardial perfusion SPECT. *Radiology*, **2008**, 249, 62-70	20.5	70
136	Sex differences in calcified plaque and long-term cardiovascular mortality: observations from the CAC Consortium. *European Heart Journal*, **2018**, 39, 3727-3735	9.5	69
135	Costs and clinical outcomes in individuals without known coronary artery disease undergoing coronary computed tomographic angiography from an analysis of Medicare category III transaction codes. *American Journal of Cardiology*, **2008**, 102, 672-8	3	66
134	Baseline Characteristics and Risk Profiles of Participants in the ISCHEMIA Randomized Clinical Trial. *JAMA Cardiology*, **2019**, 4, 273-286	16.2	65
133	Clinical Feasibility of 3D Automated Coronary Atherosclerotic Plaque Quantification Algorithm on Coronary Computed Tomography Angiography: Comparison with Intravascular Ultrasound. *European Radiology*, **2015**, 25, 3073-83	8	63
132	Coronary artery imaging with single-source rapid kilovolt peak-switching dual-energy CT. *Radiology*, **2013**, 268, 702-9	20.5	63
131	The impact of calcium volume and distribution in aortic root injury related to balloon-expandable transcatheter aortic valve replacement. *Journal of Cardiovascular Computed Tomography*, **2015**, 9, 382-92	2.8	62
130	High Coronary Shear Stress in Patients With Coronary Artery Disease Predicts Myocardial Infarction. *Journal of the American College of Cardiology*, **2018**, 72, 1926-1935	15.1	62
129	Atherosclerotic plaque characterization by CT angiography for identification of high-risk coronary artery lesions: a comparison to optical coherence tomography. *European Heart Journal Cardiovascular Imaging*, **2015**, 16, 373-9	4.1	61
128	The prognostic value of multidetector coronary CT angiography for the prediction of major adverse cardiovascular events: a multicenter observational cohort study. *International Journal of Cardiovascular Imaging*, **2010**, 26, 721-8	2.5	59
127	Machine learning in cardiac CT: Basic concepts and contemporary data. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 192-201	2.8	58
126	Additional value of transluminal attenuation gradient in CT angiography to predict hemodynamic significance of coronary artery stenosis. *JACC: Cardiovascular Imaging*, **2014**, 7, 374-86	8.4	57
125	High-definition multidetector computed tomography for evaluation of coronary artery stents: comparison to standard-definition 64-detector row computed tomography. *Journal of Cardiovascular Computed Tomography*, **2009**, 3, 246-51	2.8	57
124	Prognostic value of coronary computed tomographic angiography findings in asymptomatic individuals: a 6-year follow-up from the prospective multicentre international CONFIRM study. *European Heart Journal*, **2018**, 39, 934-941	9.5	56
123	Oversizing in transcatheter aortic valve replacement, a commonly used term but a poorly understood one: dependency on definition and geometrical measurements. *Journal of Cardiovascular Computed Tomography*, **2014**, 8, 67-76	2.8	56
122	All-cause mortality benefit of coronary revascularization vs. medical therapy in patients without known coronary artery disease undergoing coronary computed tomographic angiography: results from CONFIRM (COronary CT Angiography EvaluatioN For Clinical Outcomes: An InteRnational	9.5	55
121	Coronary CT angiography versus myocardial perfusion imaging for near-term quality of life, cost and radiation exposure: a prospective multicenter randomized pilot trial. *Journal of Cardiovascular Computed Tomography*, **2012**, 6, 274-83	2.8	55
120	Cigarette smoking and cardiovascular events: role of inflammation and subclinical atherosclerosis from the MultiEthnic Study of Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 700-9	9.4	54

119	Impact of Intensive LDL Cholesterol Lowering on Coronary Artery Atherosclerosis Progression: A Serial CT Angiography Study. *JACC: Cardiovascular Imaging*, **2017**, 10, 437-446	8.4	53
118	Automated Quantitative Plaque Burden from Coronary CT Angiography Noninvasively Predicts Hemodynamic Significance by using Fractional Flow Reserve in Intermediate Coronary Lesions. *Radiology*, **2015**, 276, 408-15	20.5	52
117	Rationale and design of the Progression of AtheRosclerotic PlAque DetermIned by Computed TomoGraphic Angiography IMaging (PARADIGM) registry: A comprehensive exploration of plaque progression and its impact on clinical outcomes from a multicenter serial coronary computed tomographic angiography study. *American Heart Journal*, **2016**, 182, 72-79	4.9	49
116	Long-Term Prognosis After Coronary Artery Calcium Scoring Among Low-Intermediate Risk Women and Men. *Circulation: Cardiovascular Imaging*, **2016**, 9, e003742	3.9	47
115	Prognostic value of PET myocardial perfusion imaging in obese patients. *JACC: Cardiovascular Imaging*, **2014**, 7, 278-87	8.4	45
114	Association of Sex With Severity of Coronary Artery Disease, Ischemia, and Symptom Burden in Patients With Moderate or Severe Ischemia: Secondary Analysis of the ISCHEMIA Randomized Clinical Trial. *JAMA Cardiology*, **2020**, 5, 773-786	16.2	44
113	Gadolinium Enhancement in Intracranial Atherosclerotic Plaque and Ischemic Stroke: A Systematic Review and Meta-Analysis. *Journal of the American Heart Association*, **2016**, 5,	6	43
112	Incremental prognostic significance of left ventricular dysfunction to coronary artery disease detection by 64-detector row coronary computed tomographic angiography for the prediction of all-cause mortality: results from a two-centre study of 5330 patients. *European Heart Journal*, **2010**,	9.5	42
111	Diagnostic value of coronary CT angiography in comparison with invasive coronary angiography and intravascular ultrasound in patients with intermediate coronary artery stenosis: results from the prospective multicentre FIGURE-OUT (Functional Imaging criteria for GUiding REview of invasive coronary angiOgraphy, intravascular Ultrasound, and coronary computed Tomographic	4.1	36
110	Association of High-Density Calcified 1K Plaque With Risk of Acute Coronary Syndrome. *JAMA Cardiology*, **2020**, 5, 282-290	16.2	35
109	Relationship of Hypertension to Coronary Atherosclerosis and Cardiac Events in Patients With Coronary Computed Tomographic Angiography. *Hypertension*, **2017**, 70, 293-299	8.5	34
108	Myocardial perfusion analysis in cardiac computed tomography angiographic images at rest. *Medical Image Analysis*, **2015**, 24, 77-89	15.4	33
107	Long term prognostic utility of coronary CT angiography in patients with no modifiable coronary artery disease risk factors: Results from the 5 year follow-up of the CONFIRM International Multicenter Registry. *Journal of Cardiovascular Computed Tomography*, **2016**, 10, 22-7	2.8	33
106	Coronary Computed Tomography Angiography From Clinical Uses to Emerging Technologies: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*, **2020**, 76, 1226-1243	15.1	31
105	Noninvasive Imaging to Evaluate Women With Stable Ischemic Heart Disease. *JACC: Cardiovascular Imaging*, **2016**, 9, 421-35	8.4	31
104	Determinants of In-Hospital Mortality After Percutaneous Coronary Intervention: A Machine Learning Approach. *Journal of the American Heart Association*, **2019**, 8, e011160	6	30
103	Incremental role of resting myocardial computed tomography perfusion for predicting physiologically significant coronary artery disease: A machine learning approach. *Journal of Nuclear Cardiology*, **2018**, 25, 223-233	2.1	30
102	Diagnostic Performance of Treadmill Exercise Cardiac Magnetic Resonance: The Prospective, Multicenter Exercise CMR's Accuracy for Cardiovascular Stress Testing (EXACT) Trial. *Journal of the American Heart Association*, **2016**, 5,	6	30

101	Predictive value of targeted proteomics for coronary plaque morphology in patients with suspected coronary artery disease. *EBioMedicine*, **2019**, 39, 109-117	8.8	29
100	Dual-energy computed tomography for detection of coronary artery disease. *Expert Review of Cardiovascular Therapy*, **2015**, 13, 1345-56	2.5	28
99	ACR appropriateness criteria asymptomatic patient at risk for coronary artery disease. *Journal of the American College of Radiology*, **2014**, 11, 12-9	3.5	24
98	10-Year Resource Utilization and Costs for Cardiovascular Care. *Journal of the American College of Cardiology*, **2018**, 71, 1078-1089	15.1	22
97	Identification and Quantification of Cardiovascular Structures From CCTA: An End-to-End, Rapid, Pixel-Wise, Deep-Learning Method. *JACC: Cardiovascular Imaging*, **2020**, 13, 1163-1171	8.4	22
96	Clinical risk factors and atherosclerotic plaque extent to define risk for major events in patients without obstructive coronary artery disease: the long-term coronary computed tomography angiography CONFIRM registry. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 479-488	4.1	21
95	Rationale and design of the dual-energy computed tomography for ischemia determination compared to "gold standard" non-invasive and invasive techniques (DECIDE-Gold): A multicenter international efficacy diagnostic study of rest-stress dual-energy computed tomography angiography with perfusion. *Journal of Nuclear Cardiology*, **2015**, 22, 1031-40	2.1	19
94	Prognostic Significance of Nonobstructive Left Main Coronary Artery Disease in Women Versus Men: Long-Term Outcomes From the CONFIRM (Coronary CT Angiography Evaluation For Clinical Outcomes: An International Multicenter) Registry. *Circulation: Cardiovascular Imaging*, **2017**, 10,	3.9	19
93	Diffuse coronary artery disease among other atherosclerotic plaque characteristics by coronary computed tomography angiography for predicting coronary vessel-specific ischemia by fractional flow reserve. *Atherosclerosis*, **2017**, 258, 145-151	3.1	16
92	Optimal boundary detection method and window settings for coronary atherosclerotic plaque volume analysis in coronary computed tomography angiography: comparison with intravascular ultrasound. *European Radiology*, **2016**, 26, 3190-8	8	16
91	Cryptogenic Stroke and Nonstenosing Intracranial Calcified Atherosclerosis. *Journal of Stroke and Cerebrovascular Diseases*, **2017**, 26, 863-870	2.8	15
90	A clinical model to identify patients with high-risk coronary artery disease. *JACC: Cardiovascular Imaging*, **2015**, 8, 427-434	8.4	15
89	Effects of Liver Transplantation on Lipids and Cardiovascular Disease in Children With Homozygous Familial Hypercholesterolemia. *American Journal of Cardiology*, **2016**, 118, 504-10	3	15
88	A Boosted Ensemble Algorithm for Determination of Plaque Stability in High-Risk Patients on Coronary CTA. *JACC: Cardiovascular Imaging*, **2020**, 13, 2162-2173	8.4	15
87	Rationale and Design of the CREDENCE Trial: computed TomogRaphic evaluation of atherosclerotic DEtermiNants of myocardial IsChEmia. *BMC Cardiovascular Disorders*, **2016**, 16, 190	2.3	15
86	Association of Statin Treatment With Progression of Coronary Atherosclerotic Plaque Composition. *JAMA Cardiology*, **2021**, 6, 1257-1266	16.2	15
85	Predictive Value of Age- and Sex-Specific Nomograms of Global Plaque Burden on Coronary Computed Tomography Angiography for Major Cardiac Events. *Circulation: Cardiovascular Imaging*, **2017**, 10,	3.9	14
84	15-Year prognostic utility of coronary artery calcium scoring for all-cause mortality in the elderly. *Atherosclerosis*, **2016**, 246, 361-6	3.1	14

83	ACR Appropriateness Criteria Acute Nonspecific Chest Pain-Low Probability of Coronary Artery Disease. *Journal of the American College of Radiology*, **2015**, 12, 1266-71	3.5	14
82	Current Evidence and Recommendations for Coronary CTA First in Evaluation of Stable Coronary Artery Disease. *Journal of the American College of Cardiology*, **2020**, 76, 1358-1362	15.1	14
81	Effect of Varying Hemodynamic and Vascular Conditions on Fractional Flow Reserve: An In Vitro Study. *Journal of the American Heart Association*, **2016**, 5,	6	14
80	Non-obstructive high-risk plaques increase the risk of future culprit lesions comparable to obstructive plaques without high-risk features: the ICONIC study. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 973-980	4.1	13
79	Adverse Plaque Characteristics Relate More Strongly With Hyperemic Fractional Flow Reserve and Instantaneous Wave-Free Ratio Than With Resting Instantaneous Wave-Free Ratio. *JACC: Cardiovascular Imaging*, **2020**, 13, 746-756	8.4	13
78	Compliant Buckled Foam Actuators and Application in Patient-Specific Direct Cardiac Compression. *Soft Robotics*, **2018**, 5, 99-108	9.2	12
77	Coronary calcium scoring for long-term mortality prediction in patients with and without a family history of coronary disease. *Heart*, **2016**, 102, 204-8	5.1	12
76	Quantitative measurement of lipid rich plaque by coronary computed tomography angiography: A correlation of histology in sudden cardiac death. *Atherosclerosis*, **2018**, 275, 426-433	3.1	12
75	Cost-effectiveness of diagnostic evaluation strategies for individuals with stable chest pain syndrome and suspected coronary artery disease. *Clinical Imaging*, **2017**, 43, 97-105	2.7	11
74	Automatic segmentation of multiple cardiovascular structures from cardiac computed tomography angiography images using deep learning. *PLoS ONE*, **2020**, 15, e0232573	3.7	11
73	Clinical and Socioeconomic Predictors of Heart Failure Readmissions: A Review of Contemporary Literature. *Mayo Clinic Proceedings*, **2019**, 94, 1304-1320	6.4	11
72	Diagnostic Value of Transluminal Attenuation Gradient for the Presence of Ischemia as Defined by Fractional Flow Reserve and Quantitative Positron Emission Tomography. *JACC: Cardiovascular Imaging*, **2019**, 12, 323-333	8.4	11
71	Fractional flow reserve derived from coronary computed tomography angiography: diagnostic performance in hypertensive and diabetic patients. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 1351-1360	4.1	10
70	Effect of myocardial perfusion pattern on frequency and severity of mitral regurgitation in patients with known or suspected coronary artery disease. *American Journal of Cardiology*, **2014**, 114, 355-61	3	10
69	Cardiac CT: current practice and emerging applications. *Heart*, **2019**, 105, 1597-1605	5.1	9
68	Prognostic value of Rb-82 positron emission tomography myocardial perfusion imaging in coronary artery bypass patients. *European Heart Journal Cardiovascular Imaging*, **2014**, 15, 787-92	4.1	9
67	Differences in episode-based care costs for multidetector computed tomographic coronary angiography versus myocardial perfusion imaging for the diagnosis of coronary artery disease. *Journal of Medical Economics*, **2008**, 11, 327-40	2.4	9
66	F-Sodium Fluoride Positron Emission Tomography/Computed Tomography in Ex Vivo Human Coronary Arteries With Histological Correlation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 404-411	9.4	9

65	Evaluation of Atherosclerotic Plaque in Non-invasive Coronary Imaging. *Korean Circulation Journal*, **2018**, 48, 124-133	2.2	9
64	Non-contrast estimation of diffuse myocardial fibrosis with dual energy CT: A phantom study. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 74-80	2.8	8
63	Role of computed tomography screening for detection of coronary artery disease. *Clinical Imaging*, **2016**, 40, 307-10	2.7	8
62	Optimizing image contrast display improves quantitative stenosis measurement in heavily calcified coronary arterial segments on coronary CT angiography: A proof-of-concept and comparison to quantitative invasive coronary angiography. *Academic Radiology*, **2014**, 21, 797-804	4.3	8
61	Association between Intracranial Atherosclerotic Calcium Burden and Angiographic Luminal Stenosis Measurements. *American Journal of Neuroradiology*, **2017**, 38, 1723-1729	4.4	8
60	Multimodality Imaging in Coronary Artery Disease: Focus on Computed Tomography. *Journal of Cardiovascular Imaging*, **2016**, 24, 7-17	0	8
59	Impact of Non-obstructive left main disease on the progression of coronary artery disease: A PARADIGM substudy. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 231-237	2.8	8
58	ACR Appropriateness Criteria Chronic Chest Pain-High Probability of Coronary Artery Disease. *Journal of the American College of Radiology*, **2017**, 14, S71-S80	3.5	7
57	Prognostic implications of coronary artery calcium in the absence of coronary artery luminal narrowing. *Atherosclerosis*, **2017**, 262, 185-190	3.1	7
56	Micropatterning of Nonplanar Surfaces on 3D Devices Using Conformal Template Vacuum Bagging. *Advanced Materials Technologies*, **2018**, 3, 1700353	6.8	7
55	SYNTAX Score Derived From Coronary CT Angiography for Prediction of Complex Percutaneous Coronary Interventions. *Academic Radiology*, **2016**, 23, 1384-1392	4.3	7
54	New frontiers in CT angiography: physiologic assessment of coronary artery disease by multidetector CT. *Heart*, **2013**, 99, 661-8	5.1	7
53	Accelerating the future of cardiac CT: Social media as sine qua non?. *Journal of Cardiovascular Computed Tomography*, **2020**, 14, 382-385	2.8	6
52	Is There an Age When Myocardial Perfusion Imaging May No Longer Be Prognostically Useful?. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007322	3.9	6
51	Coronary CT angiography: clinical utility and prognosis. *Current Cardiology Reports*, **2009**, 11, 47-53	4.2	6
50	What makes a coronary CT angiogram nondiagnostic?. *Journal of Cardiovascular Computed Tomography*, **2008**, 2, 351-9	2.8	6
49	Incremental prognostic value of hybrid [15O]H2O positron emission tomography-computed tomography: combining myocardial blood flow, coronary stenosis severity, and high-risk plaque morphology. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 1105-1113	4.1	6
48	Coronary artery disease: Sex-related differences in CAD and plaque characteristics. *Nature Reviews Cardiology*, **2016**, 13, 318-9	14.8	6

47	ACR Appropriateness Criteria Known or Suspected Congenital Heart Disease in the Adult. *Journal of the American College of Radiology*, **2017**, 14, S166-S176	3.5	5
46	Dense calcium and lesion-specific ischemia: A comparison of CCTA with fractional flow reserve. *Atherosclerosis*, **2017**, 260, 163-168	3.1	5
45	Robotics-driven printing of curved 3D structures for manufacturing cardiac therapeutic devices **2015**,		5
44	Fractional Flow Reserve Measurement by Computed Tomography: An Alternative to the Stress Test. *Interventional Cardiology Review*, **2016**, 11, 105-109	4.2	5
43	Diagnostic Accuracy, Image Quality, and Patient Comfort for Coronary CT Angiography Performed Using Iso-Osmolar versus Low-Osmolar Iodinated Contrast: A Prospective International Multicenter Randomized Controlled Trial. *Academic Radiology*, **2016**, 23, 743-51	4.3	5
42	Using Soft Robotic Technology to Fabricate a Proof-of-Concept Transcatheter Tricuspid Valve Replacement (TTVR) Device. *Advanced Materials Technologies*, **2019**, 4, 1800610	6.8	4
41	Cost-effective applications of cardiac computed tomography in coronary artery disease. *Expert Review of Cardiovascular Therapy*, **2008**, 6, 43-55	2.5	4
40	Cardiac CT angiography in current practice: An American society for preventive cardiology clinical practice statement.. *American Journal of Preventive Cardiology*, **2022**, 9, 100318	1.9	4
39	Comparison Between the Performance of Quantitative Flow Ratio and Perfusion Imaging for Diagnosing Myocardial Ischemia. *JACC: Cardiovascular Imaging*, **2020**, 13, 1976-1985	8.4	4
38	Toward Development of Inflatable Stents with Application in Endovascular Treatments. *Advanced Functional Materials*, **2018**, 28, 1804147	15.6	4
37	Imaging Registries and Single-Center Series. *JACC: Cardiovascular Imaging*, **2017**, 10, 276-285	8.4	3
36	Evolving, innovating, and revolutionary changes in cardiovascular imaging: We've only just begun!. *Journal of Nuclear Cardiology*, **2018**, 25, 758-768	2.1	3
35	Fully Automatic Segmentation Of Short-Axis Cardiac MRI Using Modified Deep Layer Aggregation **2019**,		3
34	Coronary CT Angiographic Measures of Adverse Atherosclerotic Plaque Features. *Current Cardiovascular Risk Reports*, **2013**, 7, 117-125	0.9	3
33	Blueprint of the certification examination in cardiovascular computed tomography. *Journal of Cardiovascular Computed Tomography*, **2008**, 2, 263-71	2.8	3
32	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing. *PLoS ONE*, **2020**, 15, e0236827	3.7	3
31	Diagnostic value of comprehensive on-site and off-site coronary CT angiography for identifying hemodynamically obstructive coronary artery disease. *Journal of Cardiovascular Computed Tomography*, **2021**, 15, 37-45	2.8	3
30	The Journal of Cardiovascular Computed Tomography year in review - 2018. *Journal of Cardiovascular Computed Tomography*, **2018**, 12, 529-538	2.8	3

29	Association between Aortic Valve Calcification Progression and Coronary Atherosclerotic Plaque Volume Progression in the PARADIGM Registry. *Radiology*, **2021**, 300, 79-86	20.5	3
28	Costs and clinical outcomes for non-invasive versus invasive diagnostic approaches to patients with suspected in-stent restenosis. *International Journal of Cardiovascular Imaging*, **2016**, 32, 309-315	2.5	2
27	Association between epicardial fat volume and fractional flow reserve: An analysis of the determination of fractional flow reserve (DeFACTO) study. *Clinical Imaging*, **2018**, 51, 30-34	2.7	2
26	Stress Myocardial Perfusion PET Provides Incremental Risk Prediction in Patients with and Patients without Diabetes. *Radiology: Cardiothoracic Imaging*, **2019**, 1, e180018	8.3	2
25	Coronary CT angiography decreases the length of stay in emergency department versus standard therapy in patients presenting with acute chest pain, but results in increased downstream testing and radiation exposure. *Evidence-Based Medicine*, **2013**, 18, 146-7		2
24	Artificial Intelligence and Machine Learning in Cardiovascular Imaging. *Methodist DeBakey Cardiovascular Journal*, **2021**, 16, 263	2.1	2
23	Prognostic value of vasodilator response using rubidium-82 positron emission tomography myocardial perfusion imaging in patients with coronary artery disease. *European Journal of Nuclear Medicine and Molecular Imaging*, **2018**, 45, 538-548	8.8	2
22	Advanced Manufacturing of Patient-Specific Occluders for the Left Atrial Appendage with Minimally Invasive Delivery. *Advanced Engineering Materials*, **2020**, 22, 1901074	3.5	1
21	Development and External Validation of a Deep Learning Algorithm for Prognostication of Cardiovascular Outcomes. *Korean Circulation Journal*, **2020**, 50, 72-84	2.2	1
20	Coronary Computed Tomography Angiography as the Investigation of Choice for Stable Chest Pain. *JAMA Cardiology*, **2019**, 4, 948	16.2	1
19	Artificial Intelligence and Machine Learning in Cardiovascular Imaging. *Methodist DeBakey Cardiovascular Journal*, **2020**, 16, 263-271	2.1	1
18	Rapid Manufacturing of Thin Soft Pneumatic Actuators and Robots. *Journal of Visualized Experiments*, **2019**,	1.6	1
17	Age- and gender-adjusted percentiles for number of calcified plaques in coronary artery calcium scanning. *Journal of Cardiovascular Computed Tomography*, **2019**, 13, 319-324	2.8	1
16	Outcomes With Intermediate Left Main Disease: Analysis From the ISCHEMIA Trial.. *Circulation: Cardiovascular Interventions*, **2022**, CIRCINTERVENTIONS121010925	6	1
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11	Integrating Physiologic and Anatomic Assessment of Coronary Artery Disease by Coronary Computed Tomographic Angiography. *Current Cardiovascular Imaging Reports*, **2012**, 5, 301-309	0.7
10	Paying it forward. *Journal of Cardiovascular Computed Tomography*, **2011**, 5, 483-4	2.8
9	Nomograms for Coronary Computed Tomographic Angiography **2010**, 256-264	
8	Economic Considerations for Coronary CT Angiography. *Current Cardiovascular Imaging Reports*, **2010**, 3, 390-395	0.7
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6	Artificial intelligence in cardiovascular imaging **2021**, 383-393	
5	Improving outcomes in cardiovascular disease. *Managed Care Interface*, **2008**, 21, 12-3	
4	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing **2020**, 15, e0236827	
3	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing **2020**, 15, e0236827	
2	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing **2020**, 15, e0236827	
1	Extraction of radiographic findings from unstructured thoracoabdominal computed tomography reports using convolutional neural network based natural language processing **2020**, 15, e0236827	