

Michelle C Williams

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

7,419
citations

126907

33
h-index

54911

84
g-index

94
all docs

94
docs citations

94
times ranked

7049
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronary CT Angiography and 5-Year Risk of Myocardial Infarction. <i>New England Journal of Medicine</i> , 2018, 379, 924-933.	27.0	898
2	18F-fluoride positron emission tomography for identification of ruptured and high-risk coronary atherosclerotic plaques: a prospective clinical trial. <i>Lancet, The</i> , 2014, 383, 705-713.	13.7	804
3	CT coronary angiography in patients with suspected angina due to coronary heart disease (SCOT-HEART): an open-label, parallel-group, multicentre trial. <i>Lancet, The</i> , 2015, 385, 2383-2391.	13.7	796
4	Coronary Arterial 18F-Sodium Fluoride Uptake. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1539-1548.	2.8	445
5	Coronary Artery Plaque Characteristics Associated With Adverse Outcomes in the SCOT-HEART Study. <i>Journal of the American College of Cardiology</i> , 2019, 73, 291-301.	2.8	367
6	Low-Attenuation Noncalcified Plaque on Coronary Computed Tomography Angiography Predicts Myocardial Infarction. <i>Circulation</i> , 2020, 141, 1452-1462.	1.6	348
7	Association Between Interstitial Lung Abnormalities and All-Cause Mortality. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 672.	7.4	333
8	Use of Coronary Computed Tomographic Angiography to Guide Management of Patients With Coronary Disease. <i>Journal of the American College of Cardiology</i> , 2016, 67, 1759-1768.	2.8	274
9	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. <i>European Heart Journal</i> , 2019, 40, 3529-3543.	2.2	268
10	The Updated NICE Guidelines: Cardiac CT as the First-Line Test for Coronary Artery Disease. <i>Current Cardiovascular Imaging Reports</i> , 2017, 10, 15.	0.6	227
11	Abdominal Aortic Aneurysm Growth Predicted by Uptake of Ultrasmall Superparamagnetic Particles of Iron Oxide. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 274-281.	2.6	153
12	Coronary artery calcification is increased in patients with COPD and associated with increased morbidity and mortality. <i>Thorax</i> , 2014, 69, 718-723.	5.6	151
13	Coronary Computed Tomography Angiography From Clinical Uses to Emerging Technologies. <i>Journal of the American College of Cardiology</i> , 2020, 76, 1226-1243.	2.8	140
14	Aortic stenosis, atherosclerosis, and skeletal bone: is there a common link with calcification and inflammation?. <i>European Heart Journal</i> , 2013, 34, 1567-1574.	2.2	131
15	Peri-Coronary Adipose Tissue Density Is Associated With 18F-Sodium Fluoride Coronary Uptake in Stable Patients With High-Risk Plaques. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2000-2010.	5.3	129
16	In Vivo Mononuclear Cell Tracking Using Superparamagnetic Particles of Iron Oxide. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 509-517.	2.6	100
17	Coronary 18F-Sodium Fluoride Uptake Predicts Outcomes in Patients With Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2020, 75, 3061-3074.	2.8	100
18	Guiding Therapy by Coronary CT Angiography Improves Outcomes in Patients With Stable Chest Pain. <i>Journal of the American College of Cardiology</i> , 2019, 74, 2058-2070.	2.8	99

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19	Bone marrow adipose tissue is a unique adipose subtype with distinct roles in glucose homeostasis. <i>Nature Communications</i> , 2020, 11, 3097.	12.8	98
20	Circulating desmosine levels do not predict emphysema progression but are associated with cardiovascular risk and mortality in COPD. <i>European Respiratory Journal</i> , 2016, 47, 1365-1373.	6.7	64
21	Coronary artery disease reporting and data system (CAD-RADS™): Inter-observer agreement for assessment categories and modifiers. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 125-130.	1.3	62
22	Effect of Denosumab or Alendronic Acid on the Progression of Aortic Stenosis: A Double-Blind Randomized Controlled Trial. <i>Circulation</i> , 2021, 143, 2418-2427.	1.6	61
23	Computed Tomography and Cardiac Magnetic Resonance in Ischemic Heart Disease. <i>Journal of the American College of Cardiology</i> , 2016, 68, 2201-2216.	2.8	56
24	Recommendations for accurate CT diagnosis of suspected acute aortic syndrome (AAS) on behalf of the British Society of Cardiovascular Imaging (BSCI)/British Society of Cardiovascular CT (BSCCT). <i>British Journal of Radiology</i> , 2016, 89, 20150705.	2.2	51
25	Blood vessel segmentation and width estimation in ultra-wide field scanning laser ophthalmoscopy. <i>Biomedical Optics Express</i> , 2014, 5, 4329.	2.9	43
26	Coronary ¹⁸ F-Fluoride Uptake and Progression of Coronary Artery Calcification. <i>Circulation: Cardiovascular Imaging</i> , 2020, 13, e011438.	2.6	43
27	High-Sensitivity Cardiac Troponin I and the Diagnosis of Coronary Artery Disease in Patients With Suspected Angina Pectoris. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2018, 11, e004227.	2.2	41
28	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.	1.3	41
29	Quantitative assessment of atherosclerotic plaque, recent progress and current limitations. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 124-137.	1.3	41
30	CT-measured bone attenuation in patients with chronic obstructive pulmonary disease: Relation to clinical features and outcomes. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1369-1377.	2.8	40
31	Symptoms and quality of life in patients with suspected angina undergoing CT coronary angiography: a randomised controlled trial. <i>Heart</i> , 2017, 103, 995-1001.	2.9	40
32	Reporting incidental coronary, aortic valve and cardiac calcification on non-gated thoracic computed tomography, a consensus statement from the BSCI/BSCCT and BSTI. <i>British Journal of Radiology</i> , 2021, 94, 20200894.	2.2	38
33	Molecular Coronary Plaque Imaging Using ¹⁸ F-Fluoride. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008574.	2.6	36
34	Observer variability in the assessment of CT coronary angiography and coronary artery calcium score: substudy of the Scottish Computed Tomography of the HEART (SCOT-HEART) trial. <i>Open Heart</i> , 2015, 2, e000234.	2.3	35
35	Exercise Electrocardiography and Computed Tomography Coronary Angiography for Patients With Suspected Stable Angina Pectoris. <i>JAMA Cardiology</i> , 2020, 5, 920.	6.1	34
36	Iterative reconstruction and individualized automatic tube current selection reduce radiation dose while maintaining image quality in 320-multidetector computed tomography coronary angiography. <i>Clinical Radiology</i> , 2013, 68, e570-e577.	1.1	33

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37	Ectopic fat accumulation in patients with COPD: an ECLIPSE substudy. <i>International Journal of COPD</i> , 2017, Volume 12, 451-460.	2.3	33
38	Native Aortic Valve Disease Progression and Bioprosthetic Valve Degeneration in Patients With Transcatheter Aortic Valve Implantation. <i>Circulation</i> , 2021, 144, 1396-1408.	1.6	32
39	Coronary Artery and Cardiac Disease in Patients With Type 2 Myocardial Infarction: A Prospective Cohort Study. <i>Circulation</i> , 2022, 145, 1188-1200.	1.6	32
40	A prospective national survey of coronary CT angiography radiation doses in the United Kingdom. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 268-273.	1.3	31
41	Standardized reporting systems for computed tomography coronary angiography and calcium scoring: A real-world validation of CAD-RADS and CAC-DRS in patients with stable chest pain. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 3-11.	1.3	31
42	A zero coronary artery calcium score in patients with stable chest pain is associated with a good prognosis, despite risk of non-calcified plaques. <i>Open Heart</i> , 2019, 6, e000945.	2.3	30
43	Validation of European Society of Cardiology pre-test probabilities for obstructive coronary artery disease in suspected stable angina. <i>European Heart Journal Quality of Care & Clinical Outcomes</i> , 2020, 6, 293-300.	4.0	30
44	Cardiac and coronary CT comprehensive imaging approach in the assessment of coronary heart disease. <i>Heart</i> , 2011, 97, 1198-1205.	2.9	29
45	Impact of noncardiac findings in patients undergoing CT coronary angiography: a substudy of the Scottish computed tomography of the heart (SCOT-HEART) trial. <i>European Radiology</i> , 2018, 28, 2639-2646.	4.5	28
46	Sex associations and computed tomography coronary angiography-guided management in patients with stable chest pain. <i>European Heart Journal</i> , 2020, 41, 1337-1345.	2.2	28
47	Using radiation safely in cardiology: what imagers need to know. <i>Heart</i> , 2019, 105, 798-806.	2.9	26
48	Ticagrelor to Reduce Myocardial Injury in Patients With High-Risk Coronary Artery Plaque. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1549-1560.	5.3	26
49	Computed tomography myocardial perfusion vs 15O-water positron emission tomography and fractional flow reserve. <i>European Radiology</i> , 2017, 27, 1114-1124.	4.5	25
50	MRI and CT coronary angiography in survivors of COVID-19. <i>Heart</i> , 2022, 108, 46-53.	2.9	25
51	Complementary role of cardiac CT in the assessment of aortic valve replacement dysfunction. <i>Open Heart</i> , 2016, 3, e000494.	2.3	23
52	Measurement of myocardial blood flow by cardiovascular magnetic resonance perfusion: comparison of distributed parameter and Fermi models with single and dual bolus. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 17.	3.3	22
53	CT myocardial perfusion imaging: current status and future directions. <i>Clinical Radiology</i> , 2016, 71, 739-749.	1.1	22
54	Computed tomography aortic valve calcium scoring for the assessment of aortic stenosis progression. <i>Heart</i> , 2020, 106, 1906-1913.	2.9	22

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55	Accuracy of Automated Computer-Aided Diagnosis for Stroke Imaging: A Critical Evaluation of Current Evidence. <i>Stroke</i> , 2022, 53, 2393-2403.	2.0	22
56	Association of coronary artery calcium score with qualitatively and quantitatively assessed adverse plaque on coronary CT angiography in the SCOT-HEART trial. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1210-1221.	1.2	21
57	Breast arterial calcification on mammography and risk of coronary artery disease: a SCOT-HEART sub-study. <i>Clinical Radiology</i> , 2019, 74, 421-428.	1.1	20
58	Prevalence and clinical implications of valvular calcification on coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 262-270.	1.2	19
59	Impact of COVID-19 on the imaging diagnosis of cardiac disease in Europe. <i>Open Heart</i> , 2021, 8, e001681.	2.3	17
60	Downstream testing after CT coronary angiography: time for a rethink?. <i>Open Heart</i> , 2021, 8, e001597.	2.3	16
61	Coronary atherosclerosis imaging by CT to improve clinical outcomes. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 281-287.	1.3	15
62	Iterative reconstruction can permit the use of lower X-ray tube current in CT coronary artery calcium scoring. <i>British Journal of Radiology</i> , 2016, 89, 20150780.	2.2	14
63	Response by Williams et al to Letter Regarding Article, "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, 142, e244-e245.	1.6	14
64	Evaluation of coronary artery disease as a risk factor for reticular pseudodrusen. <i>British Journal of Ophthalmology</i> , 2018, 102, 483-489.	3.9	13
65	Coronary artery calcification is associated with mortality independent of pulmonary embolism severity: a retrospective cohort study. <i>Clinical Radiology</i> , 2019, 74, 973.e7-973.e14.	1.1	13
66	Multimodality Quantitative Assessments of Myocardial Perfusion Using Dynamic Contrast Enhanced Magnetic Resonance and ¹⁵ O-Labeled Water Positron Emission Tomography Imaging. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018, 2, 259-271.	3.7	12
67	SCCT curriculum guidelines for general (level 1) cardiovascular CT training. <i>Journal of Cardiovascular Computed Tomography</i> , 2015, 9, 81-88.	1.3	11
68	Cardiac CT Improves Outcomes in Stable Coronary Heart Disease: Results of Recent Clinical Trials. <i>Current Cardiovascular Imaging Reports</i> , 2017, 10, 14.	0.6	11
69	Coronary CT Angiography and Subsequent Risk of Myocardial Infarction. <i>New England Journal of Medicine</i> , 2019, 380, 298-300.	27.0	10
70	Association between hypertension and retinal vascular features in ultra-widefield fundus imaging. <i>Open Heart</i> , 2020, 7, e001124.	2.3	10
71	2020 SCCT Guideline for Training Cardiology and Radiology Trainees as Independent Practitioners (Level II) and Advanced Practitioners (Level III) in Cardiovascular Computed Tomography: A Statement from the Society of Cardiovascular Computed Tomography. <i>Radiology: Cardiothoracic Imaging</i> , 2021, 3, e200480.	2.5	9
72	Pulmonary embolism severity before and during the COVID-19 pandemic. <i>British Journal of Radiology</i> , 2021, 94, 20210264.	2.2	8

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73	Cardiovascular PET-CT imaging: a new frontier?. <i>Clinical Radiology</i> , 2016, 71, 647-659.	1.1	6
74	CT imaging prior to transcatheter aortic valve implantation in the UK. <i>Open Heart</i> , 2020, 7, e001233.	2.3	6
75	Forget Ischemia: It's All About the Plaque. <i>Circulation</i> , 2021, 144, 1039-1041.	1.6	6
76	Hepatosteatosi s and Atherosclerotic Plaque at Coronary CT Angiography. <i>Radiology: Cardiothoracic Imaging</i> , 2022, 4, e210260.	2.5	6
77	A low-dose comprehensive cardiac CT protocol assessing anatomy, function, perfusion, and viability. <i>Journal of Cardiovascular Computed Tomography</i> , 2013, 7, 69-72.	1.3	5
78	Clinical determinants of plasma cardiac biomarkers in patients with stable chest pain. <i>Heart</i> , 2019, 105, 1748-1754.	2.9	4
79	Image Quality With Single-Heartbeat 320-Multidetector Computed Tomographic Coronary Angiography. <i>Journal of Computer Assisted Tomography</i> , 2014, 38, 444-450.	0.9	3
80	Machine learning to predict cardiac events in asymptomatic individuals. <i>Atherosclerosis</i> , 2021, 318, 38-39.	0.8	3
81	Prognostic value of fractional flow reserve from computed tomography. <i>Heart</i> , 2021, , heartjnl-2021-320375.	2.9	3
82	Gaining evidence on coronary inflammation. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 455-456.	1.3	2
83	Reply. <i>Journal of the American College of Cardiology</i> , 2016, 68, 1604-1605.	2.8	1
84	Clinical Relevance of Coronary Computed Tomography Angiography Beyond Coronary Artery Stenosis. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2021, 193, 1162-1170.	1.3	1
85	Sex-based inequalities in contemporary UK hospital management of stable chest pain. <i>Open Heart</i> , 2021, 8, e001672.	2.3	1
86	Cardiovascular risk factors and aortic valve calcification: what do these associations mean?. <i>Heart</i> , 2021, 107, 1524-1525.	2.9	1
87	Computed tomography calcium scoring association and reclassification of clinical cardiovascular risk in asymptomatic Mexican patients. <i>SAGE Open Medicine</i> , 2020, 8, 205031212093823.	1.8	0
88	Radiologist opinions regarding reporting incidental coronary and cardiac calcification on thoracic CT. <i>BJR Open</i> , 2022, 4, .	0.6	0
89	What should we do about Coronary Calcification on Thoracic CT?. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2022, , .	1.3	0
90	Sex-based Differences in Outcomes Related to Thoracic Aorta Dimensions. <i>Radiology</i> , 2022, , 220402.	7.3	0