

# Jonathan R Weir-Mccall

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/403337/publications.pdf>

Version: 2024-02-01

89  
papers

2,710  
citations

361413

20  
h-index

197818

49  
g-index

94  
all docs

94  
docs citations

94  
times ranked

3827  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Common pitfalls and recommendations for using machine learning to detect and prognosticate for COVID-19 using chest radiographs and CT scans. <i>Nature Machine Intelligence</i> , 2021, 3, 199-217.  | 16.0 | 607       |
| 2  | 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       |
| 3  | Computed Tomography Imaging in the Context of Transcatheter Aortic Valve Implantation (TAVI)/Transcatheter Aortic Valve Replacement (TAVR). <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1-24.   | 5.3  | 310       |
| 4  | Computed tomography imaging in the context of transcatheter aortic valve implantation (TAVI) / transcatheter aortic valve replacement (TAVR): An expert consensus document of the Society of Cardiovascular Computed Tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 1-20. | 1.3  | 258       |
| 5  | Left Ventricular Noncompaction. <i>Journal of the American College of Cardiology</i> , 2016, 68, 2157-2165.   | 2.8  | 118       |
| 6  | Role of multidetector computed tomography in the diagnosis and management of patients attending the rapid access chest pain clinic, The Scottish computed tomography of the heart (SCOT-HEART) trial: study protocol for randomized controlled trial. <i>Trials</i> , 2012, 13, 184.                    | 1.6  | 52        |
| 7  | Mitral Valve Imaging with CT: Relationship with Transcatheter Mitral Valve Interventions. <i>Radiology</i> , 2018, 288, 638-655.  | 7.3  | 52        |
| 8  | The role of pulmonary arterial stiffness in COPD. <i>Respiratory Medicine</i> , 2015, 109, 1381-1390.   | 2.9  | 46        |
| 9  | Prognostic value of coronary computed tomography angiographic derived fractional flow reserve: a systematic review and meta-analysis. <i>Heart</i> , 2022, 108, 194-202.  | 2.9  | 45        |
| 10 | The Relationship Between Coronary Calcification and the Natural History of Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 233-242.  | 5.3  | 44        |
| 11 | The Celiac Axis Revisited: Anatomic Variants, Pathologic Features, and Implications for Modern Endovascular Management. <i>Radiographics</i> , 2015, 35, 879-898.   | 3.3  | 39        |
| 12 | 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        |
| 13 | Determinants of Rejection Rate for Coronary CT Angiography Fractional Flow Reserve Analysis. <i>Radiology</i> , 2019, 292, 597-605.   | 7.3  | 37        |
| 14 | Epicardial adipose tissue is related to arterial stiffness and inflammation in patients with cardiovascular disease and type 2 diabetes. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 31.  | 1.7  | 36        |
| 15 | 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        |
| 16 | Efficacy of noninvasive cardiac imaging tests in diagnosis and management of stable coronary artery disease. <i>Vascular Health and Risk Management</i> , 2017, Volume 13, 427-437.   | 2.3  | 34        |
| 17 | Imaging of cardiovascular risk in patients with Turner's syndrome. <i>Clinical Radiology</i> , 2015, 70, 803-814.   | 1.1  | 28        |
| 18 | Contrast-enhanced magnetic resonance lymphography in the assessment of lower limb lymphoedema. <i>Clinical Radiology</i> , 2014, 69, e435-e444.   | 1.1  | 26        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Assessing robustness of carotid artery CT angiography radiomics in the identification of culprit lesions in cerebrovascular events. <i>Scientific Reports</i> , 2021, 11, 3499.   | 3.3 | 26        |
| 20 | Imaging in Vascular Access. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 255-272.  | 1.6 | 25        |
| 21 | High-Resolution Microscopy-Coil MR Imaging of Skin Tumors: Techniques and Novel Clinical Applications. <i>Radiographics</i> , 2015, 35, 1077-1090.  | 3.3 | 21        |
| 22 | 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        |
| 23 | Annular versus supra-annular sizing for transcatheter aortic valve replacement in bicuspid aortic valve disease. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 407-413.  | 1.3 | 20        |
| 24 | Common Carotid Intima Media Thickness and Ankle-Brachial Pressure Index Correlate with Local but Not Global Atheroma Burden: A Cross Sectional Study Using Whole Body Magnetic Resonance Angiography. <i>PLoS ONE</i> , 2014, 9, e99190.                | 2.5 | 19        |
| 25 | Development and Validation of a Path Length Calculation for Carotid-Femoral Pulse Wave Velocity Measurement. <i>Hypertension</i> , 2018, 71, 937-945.   | 2.7 | 19        |
| 26 | Effects of inaccuracies in arterial path length measurement on differences in MRI and tonometry measured pulse wave velocity. <i>BMC Cardiovascular Disorders</i> , 2017, 17, 118.  | 1.7 | 17        |
| 27 | Impact of Non-obstructive left main disease on the progression of coronary artery disease: A PARADIGM substudy. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 231-237.   | 1.3 | 17        |
| 28 | Hypertrophic Cardiomyopathy (HCM): New insights into Coronary artery remodelling and ischemia from FFRCT. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 467-471.   | 1.3 | 17        |
| 29 | Impact of sublingual nitroglycerin dosage on FFRCT assessment and coronary luminal volume-to-myocardial mass ratio. <i>European Radiology</i> , 2019, 29, 6829-6836.  | 4.5 | 14        |
| 30 | Cohort comparison study of cardiac disease and atherosclerotic burden in type 2 diabetic adults using whole body cardiovascular magnetic resonance imaging. <i>Cardiovascular Diabetology</i> , 2015, 14, 122.  | 6.8 | 13        |
| 31 | Technical assessment of whole body angiography and cardiac function within a single MRI examination. <i>Clinical Radiology</i> , 2015, 70, 595-603.   | 1.1 | 13        |
| 32 | Pulmonary arterial stiffening in COPD and its implications for right ventricular remodelling. <i>European Radiology</i> , 2018, 28, 3464-3472.  | 4.5 | 13        |
| 33 | Acute pancreatitis: a comparison of intervention rates precipitated by early vs guideline CT scan timing. <i>Clinical Radiology</i> , 2016, 71, 993-996.  | 1.1 | 12        |
| 34 | Mid-term outcome in patients with bicuspid aortic valve stenosis following transcatheter aortic valve replacement with a current generation device: A multicenter study. <i>Catheterization and Cardiovascular Interventions</i> , 2020, 95, 1186-1192. | 1.7 | 12        |
| 35 | Opportunities and challenges of implementing computed tomography fractional flow reserve into clinical practice. <i>Heart</i> , 2020, 106, 1387-1393.   | 2.9 | 12        |
| 36 | Accelerating the future of cardiac CT: Social media as sine qua non?. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 382-385.   | 1.3 | 12        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | CT in planning transcatheter aortic valve implantation procedures and risk assessment. <i>Clinical Radiology</i> , 2021, 76, 73.e1-73.e19.  | 1.1 | 12        |
| 38 | 3T MRI investigation of cardiac left ventricular structure and function in a UK population: The tayside screening for the prevention of cardiac events (TASCFORCE) study. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 1186-1196. | 3.4 | 11        |
| 39 | Prevalence of unrecognized myocardial infarction in a low- to intermediate risk asymptomatic cohort and its relation to systemic atherosclerosis. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 18, jew155.                    | 1.2 | 10        |
| 40 | FFR <sub>CT</sub> for Complex Coronary Artery Disease Treatment Planning: New Opportunities. <i>Interventional Cardiology Review</i> , 2018, 13, 126.   | 1.6 | 10        |
| 41 | Dynamic contrast-enhanced computed tomography for the diagnosis of solitary pulmonary nodules: a systematic review and meta-analysis. <i>European Radiology</i> , 2020, 30, 3310-3323.  | 4.5 | 10        |
| 42 | Impact of solitary pulmonary nodule size on qualitative and quantitative assessment using 18F-fluorodeoxyglucose PET/CT: the SPUTNIK trial. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 1560-1569.          | 6.4 | 10        |
| 43 | Transcatheter Tricuspid Valve-in-Valve Replacement With Subsequent Bioprosthetic Valve Fracture to Optimize Hemodynamic Function. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 2226-2227.  | 2.9 | 9         |
| 44 | Transcatheter Aortic and Mitral Valve Replacements. <i>Radiologic Clinics of North America</i> , 2019, 57, 165-178.   | 1.8 | 9         |
| 45 | The Journal of Cardiovascular Computed Tomography: 2020 Year in review. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 180-189.   | 1.3 | 9         |
| 46 | Vascular Thrombosis in Severe COVID-19 Requiring Extracorporeal Membrane Oxygenation: A Multicenter Study. <i>Critical Care Medicine</i> , 2022, 50, 624-632.   | 0.9 | 9         |
| 47 | Aortic stenosis post-COVID-19: a mathematical model on waiting lists and mortality. <i>BMJ Open</i> , 2022, 12, e059309.  | 1.9 | 9         |
| 48 | Effects of contrast administration on cardiac MRI volumetric, flow and pulse wave velocity quantification using manual and software-based analysis. <i>British Journal of Radiology</i> , 2018, 91, 20170717.                                 | 2.2 | 8         |
| 49 | Prognosis of CT-derived Fractional Flow Reserve in the Prediction of Clinical Outcomes. <i>Radiology: Cardiothoracic Imaging</i> , 2019, 1, e190021.  | 2.5 | 8         |
| 50 | Prevalence and Distribution of Atherosclerosis in a Low- to Intermediate-Risk Population: Assessment with Whole-Body MR Angiography. <i>Radiology</i> , 2018, 287, 795-804.   | 7.3 | 7         |
| 51 | Disconnection of pulmonary and systemic arterial stiffness in COPD. <i>International Journal of COPD</i> , 2018, Volume 13, 1755-1765.  | 2.3 | 7         |
| 52 | Systemic arteriosclerosis is associated with left ventricular remodeling but not atherosclerosis: a TASCFORCE study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 7.   | 3.3 | 7         |
| 53 | Effect of a calcium deblooming algorithm on accuracy of coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 131-136.   | 1.3 | 7         |
| 54 | Assessment of proximal pulmonary arterial stiffness using magnetic resonance imaging: effects of technique, age and exercise. <i>BMJ Open Respiratory Research</i> , 2016, 3, e000149.  | 3.0 | 6         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Whole body cardiovascular magnetic resonance imaging to stratify symptomatic and asymptomatic atherosclerotic burden in patients with isolated cardiovascular disease. BMC Medical Imaging, 2016, 16, 18. | 2.7 | 6         |
| 56 | Controversies in Diagnostic Imaging of Patients With Suspected Stable and Acute Chest Pain Syndromes. JACC: Cardiovascular Imaging, 2019, 12, 1254-1278.  | 5.3 | 6         |
| 57 | CT imaging prior to transcatheter aortic valve implantation in the UK. Open Heart, 2020, 7, e001233.  | 2.3 | 6         |
| 58 | Hepatosteatosi s and Atherosclerotic Plaque at Coronary CT Angiography. Radiology: Cardiothoracic Imaging, 2022, 4, e210260.  | 2.5 | 6         |
| 59 | Research cardiac magnetic resonance imaging in end stage renal disease - incidence, significance and implications of unexpected incidental findings. European Radiology, 2017, 27, 315-324.               | 4.5 | 5         |
| 60 | The Journal of Cardiovascular Computed Tomography year in review " 2019. Journal of Cardiovascular Computed Tomography, 2020, 14, 107-117.  | 1.3 | 5         |
| 61 | Whole-body magnetic resonance angiography. Clinical Radiology, 2019, 74, 3-12.  | 1.1 | 4         |
| 62 | Comparative accuracy and cost-effectiveness of dynamic contrast-enhanced CT and positron emission tomography in the characterisation of solitary pulmonary nodules. Thorax, 2022, 77, 988-996.            | 5.6 | 4         |
| 63 | Follow-up of atheroma burden with sequential whole body contrast enhanced MR angiography: a feasibility study. International Journal of Cardiovascular Imaging, 2016, 32, 825-832.                        | 1.5 | 3         |
| 64 | Whole-body cardiovascular MRI for the comparison of atherosclerotic burden and cardiac remodelling in healthy South Asian and European adults. British Journal of Radiology, 2016, 89, 20160342.          | 2.2 | 3         |
| 65 | <p>Allopurinol in Patients with Pulmonary Hypertension Associated with Chronic Lung Disease</p>. International Journal of COPD, 2020, Volume 15, 2015-2024.   | 2.3 | 3         |
| 66 | Research priorities in cardiovascular imaging. Open Heart, 2020, 7, e001389.  | 2.3 | 3         |
| 67 | Highlights of the Twelfth Annual Scientific Meeting of the Society of Cardiovascular Computed Tomography. Journal of Cardiovascular Computed Tomography, 2018, 12, 3-7.                                   | 1.3 | 2         |
| 68 | Fractional Flow Reserve Derived from CT: The State of Play in 2020. Radiology: Cardiothoracic Imaging, 2020, 2, e190153.  | 2.5 | 2         |
| 69 | Mechanistic study of the effect of Endothelin SNPs in microvascular angina " Protocol of the PRIZE Endothelin Sub-Study. IJC Heart and Vasculature, 2022, 39, 100980.                                     | 1.1 | 2         |
| 70 | Bacillus anthracis meningitis during an outbreak of injectional anthrax, Scotland, UK. Clinical Microbiology and Infection, 2015, 21, e49-e50.  | 6.0 | 1         |
| 71 | Letter to the editor: Comparing pace and speed in the pulmonary circulation?. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H949-H949.                                    | 3.2 | 1         |
| 72 | Impact Of A Novel Post Processing Technique For Calcium Deblooming On The Diagnostic Accuracy Of Coronary Computed Tomography Angiography. Journal of Cardiovascular Computed Tomography, 2019, 13, S3.   | 1.3 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Effect of metformin on epicardial adipose tissue in patients with coronary artery disease without diabetes: A cardiac MRI substudy of the MET-remodel trial. Obesity Medicine, 2021, 24, 100349.                                    | 0.9 | 1         |
| 74 | The Journal of cardiovascular computed tomography: A year in review 2021. Journal of Cardiovascular Computed Tomography, 2022, , .  | 1.3 | 1         |
| 75 | Corrigendum to "Acute pancreatitis: a comparison of intervention rates precipitated by early vs guideline CT scan timing" [Clin Radiol 71 (10) (2016) 993-996]. Clinical Radiology, 2016, 71, 1311.                                 | 1.1 | 0         |
| 76 | Prevalence, pattern and significance of late gadolinium enhancement in a healthy asymptomatic cohort. Heart, 2016, 102, A5.3-A5.  | 2.9 | 0         |
| 77 | Patterns of early atherosclerosis formation and cardiac remodelling in healthy adults of south asian and european descent. Heart, 2016, 102, A5.2-A5.   | 2.9 | 0         |
| 78 | No association between systemic arteriosclerosis and atherosclerosis on cardiac MRI and whole body angiography: the tascforce study. , 2017, , .  |     | 0         |
| 79 | Impact of Sublingual Nitroglycerin Dosage on FFRCT Assessment and Coronary Luminal Volume to Myocardial Mass Ratio. Journal of Cardiovascular Computed Tomography, 2019, 13, S25.   | 1.3 | 0         |
| 80 | Presence And Quantification Of Valvular Heart Disease In The SCOT-HEART Trial. Journal of Cardiovascular Computed Tomography, 2019, 13, S11.  | 1.3 | 0         |
| 81 | CT TAVR Assessment In The United Kingdom: Insights From A National BSCI/BSCCT Survey. Journal of Cardiovascular Computed Tomography, 2019, 13, S48.   | 1.3 | 0         |
| 82 | Effect of a calcium deblooming algorithm on the accuracy of coronary computed tomography angiography. , 2019, , .   |     | 0         |
| 83 | Using FFRCT to Guide Management Strategy in Women. JACC: Cardiovascular Imaging, 2020, 13, 2588-2590.   | 5.3 | 0         |
| 84 | Paravalvular leakage in transcatheter mitral valve replacement: Bringing simulation theory one step closer to reality. Journal of Cardiovascular Computed Tomography, 2020, 14, 500-501.  | 1.3 | 0         |
| 85 | Spectral CT, Low Contrast Dose and Annular Sizing: Spotting the Ghost in the Fog. Structural Heart, 2020, 4, 204-205.   | 0.6 | 0         |
| 86 | Myocardial stress perfusion in asymptomatic patients: the silent ischemia makes the loudest sound. European Radiology, 2021, 31, 6169-6171.   | 4.5 | 0         |
| 87 | Big MAC, Hold the Valve. JACC: Cardiovascular Imaging, 2020, 13, 1958-1960.   | 5.3 | 0         |
| 88 | Dynamic contrast-enhanced CT compared with positron emission tomography CT to characterise solitary pulmonary nodules: the SPUTNIK diagnostic accuracy study and economic modelling. Health Technology Assessment, 2022, 26, 1-180. | 2.8 | 0         |
| 89 | One step closer to quantifying "clinical likelihood"™ in pretest probability. European Heart Journal Quality of Care & Clinical Outcomes, 0, , .  | 4.0 | 0         |