

# Calum D Gray

## List of Publications by Year in descending order

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38  
papers

1,494  
citations

361296  
20  
h-index

345118  
36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2697  
citing authors

#	ARTICLE	IF	CITATIONS
1	Abdominal Aortic Aneurysm Growth Predicted by Uptake of Ultrasmall Superparamagnetic Particles of Iron Oxide. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 274-281.	1.3	153
2	Aortic Wall Inflammation Predicts Abdominal Aortic Aneurysm Expansion, Rupture, and Need for Surgical Repair. <i>Circulation</i> , 2017, 136, 787-797.	1.6	122
3	$^{18}\text{F}$ -Sodium Fluoride Uptake in Abdominal Aortic Aneurysms. <i>Journal of the American College of Cardiology</i> , 2018, 71, 513-523.	1.2	122
4	In Vivo Mononuclear Cell Tracking Using Superparamagnetic Particles of Iron Oxide. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, 509-517.	1.3	100
5	Bone marrow adipose tissue is a unique adipose subtype with distinct roles in glucose homeostasis. <i>Nature Communications</i> , 2020, 11, 3097.	5.8	98
6	Blunting of adaptive responses to resistance exercise training in women over 75y. <i>Experimental Gerontology</i> , 2011, 46, 884-890.	1.2	83
7	Sexual dimorphism modulates the impact of cancer cachexia on lower limb muscle mass and function. <i>Clinical Nutrition</i> , 2012, 31, 499-505.	2.3	80
8	$5\alpha$ -Reductase Type 1 Modulates Insulin Sensitivity in Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, E1397-E1406.	1.8	68
9	Phase I/II trial of formoterol fumarate combined with megestrol acetate in cachectic patients with advanced malignancy. <i>Supportive Care in Cancer</i> , 2014, 22, 1269-1275.	1.0	63
10	DiCyc: GAN-based deformation invariant cross-domain information fusion for medical image synthesis. <i>Information Fusion</i> , 2021, 67, 147-160.	11.7	62
11	In situ identification of Gram-negative bacteria in human lungs using a topical fluorescent peptide targeting lipid A. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	59
12	Sertoli Cells Modulate Testicular Vascular Network Development, Structure, and Function to Influence Circulating Testosterone Concentrations in Adult Male Mice. <i>Endocrinology</i> , 2016, 157, 2479-2488.	1.4	52
13	Positron Emission Tomography and Magnetic Resonance Imaging of Cellular Inflammation in Patients with Abdominal Aortic Aneurysms. <i>European Journal of Vascular and Endovascular Surgery</i> , 2016, 51, 518-526.	0.8	43
14	Automated Segmentation of Optical Coherence Tomography Angiography Images: Benchmark Data and Clinically Relevant Metrics. <i>Translational Vision Science and Technology</i> , 2020, 9, 5.	1.1	43
15	Magnetic resonance imaging with k-means clustering objectively measures whole muscle volume compartments in sarcopenia/cancer cachexia. <i>Clinical Nutrition</i> , 2011, 30, 106-111.	2.3	42
16	Convergence in insulin resistance between very severely obese and lean women at the end of pregnancy. <i>Diabetologia</i> , 2015, 58, 2615-2626.	2.9	34
17	The use of ultrasound to diagnose hepatic steatosis in type 2 diabetes: Intra- and interobserver variability and comparison with magnetic resonance spectroscopy. <i>Clinical Radiology</i> , 2011, 66, 434-439.	0.5	30
18	Ferumoxitol-enhanced magnetic resonance imaging in acute myocarditis. <i>Heart</i> , 2018, 104, 300-305.	1.2	24

#	ARTICLE	IF	CITATIONS
19	Increased Skeletal Muscle 11 $\beta$ HSD1 mRNA Is Associated with Lower Muscle Strength in Ageing. PLoS ONE, 2013, 8, e84057.	1.1	24
20	Measurement of myocardial blood flow by cardiovascular magnetic resonance perfusion: comparison of distributed parameter and Fermi models with single and dual bolus. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 17.	1.6	22
21	Enhanced avidity from a multivalent fluorescent antimicrobial peptide enables pathogen detection in a human lung model. Scientific Reports, 2019, 9, 8422.	1.6	22
22	Ferumoxitol-enhanced magnetic resonance imaging methodology and normal values at 1.5 and 3T. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 46.	1.6	20
23	A history of previous gestational diabetes mellitus is associated with adverse changes in insulin secretion and VLDL metabolism independently of increased intrahepatocellular lipid. Diabetologia, 2013, 56, 2021-2033.	2.9	19
24	Design and Validation of a Novel Method to Measure Cross-Sectional Area of Neck Muscles Included during Routine MR Brain Volume Imaging. PLoS ONE, 2012, 7, e34444.	1.1	18
25	Neck muscle cross-sectional area, brain volume and cognition in healthy older men; a cohort study. BMC Geriatrics, 2013, 13, 20.	1.1	17
26	Magnetic resonance elastography (MRE) shows significant reduction of thigh muscle stiffness in healthy older adults. GeroScience, 2020, 42, 311-321.	2.1	16
27	Optical coherence tomography versus intravascular ultrasound to evaluate stent implantation in patients with calcific coronary artery disease. Open Heart, 2015, 2, e000225.	0.9	14
28	The magnetic resonance imaging subset of the mngu0 articular corpus. Journal of the Acoustical Society of America, 2012, 131, EL106-EL111.	0.5	11
29	1 $\beta$ -H MRS: a potential biomarker of in utero placental function. NMR in Biomedicine, 2015, 28, 1275-1282.	1.6	10
30	Exploring the Biological and Mechanical Properties of Abdominal Aortic Aneurysms Using USPIO MRI and Peak Tissue Stress: A Combined Clinical and Finite Element Study. Journal of Cardiovascular Translational Research, 2017, 10, 489-498.	1.1	9
31	Does metformin reduce excess birthweight in offspring of obese pregnant women? A randomised controlled trial of efficacy, exploration of mechanisms and evaluation of other pregnancy complications. Efficacy and Mechanism Evaluation, 2016, 3, 1-800.	0.9	5
32	Ferumoxitol-enhanced MRI in patients with prior cardiac transplantation. Open Heart, 2019, 6, e001115.	0.9	2
33	Quantitative Parameters from OCT Angiography in Patients with Diabetic Retinopathy and in Those with Only Peripheral Retinopathy Compared with Control Participants. Ophthalmology Science, 2021, 1, 100030.	1.0	2
34	Masks2Metrics (M2M): A Matlab Toolbox for Gold Standard Morphometrics. Journal of Open Source Software, 2018, 3, 436.	2.0	2
35	Ultrasmall superparamagnetic particles of iron oxide-enhanced magnetic resonance imaging in the assessment of cellular inflammation after myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P252.	1.6	1
36	MRI enhanced with ultrasmall superparamagnetic particles of iron oxide in the assessment of cellular inflammation after myocardial infarction. Lancet, The, 2016, 387, S94.	6.3	1

#	ARTICLE	IF	CITATIONS
37	5â€¦Gender disparities in aortic stenosis: an optimised assessment using contrast-enhanced computed tomography. , 2018, , .		1
38	Assessing the reliability of DP and Fermi estimates in single and dual bolus cardiac MR perfusion imaging. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P347.	1.6	0