

# Guy A Macgowan

## List of Publications by Year in descending order

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100  
papers

1,978  
citations

257450

24  
h-index

302126

39  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive Measurement of Shortening in the Fiber and Cross-Fiber Directions in the Normal Human Left Ventricle and in Idiopathic Dilated Cardiomyopathy. <i>Circulation</i> , 1997, 96, 535-541.	1.6	179
2	Manganese-enhanced MRI of mouse heart during changes in inotropy. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 884-890.	3.0	121
3	Left Ventricular Assist Device as a Bridge to Recovery for Patients With Advanced Heart Failure. <i>Journal of the American College of Cardiology</i> , 2017, 69, 1924-1933.	2.8	96
4	Effect of Left Ventricular Assist Device Implantation and Heart Transplantation on Habitual Physical Activity and Quality of Life. <i>American Journal of Cardiology</i> , 2014, 114, 88-93.	1.6	65
5	Left ventricular torsion, energetics, and diastolic function in normal human aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H885-H892.	3.2	62
6	Contrasting effects of steroids and angiotensin-converting enzyme inhibitors in a mouse model of dystrophin-deficient cardiomyopathy. <i>European Journal of Heart Failure</i> , 2009, 11, 463-471.	7.1	61
7	Impaired cardiovascular function in primary biliary cirrhosis. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, G764-G773.	3.4	57
8	Bioimpedance and bioreactance methods for monitoring cardiac output. <i>Bailliere's Best Practice and Research in Clinical Anaesthesiology</i> , 2014, 28, 381-394.	4.0	56
9	Right heart failure after left ventricular assist device implantation. <i>Current Opinion in Cardiology</i> , 2012, 27, 296-300.	1.8	51
10	Impact of $\beta$ -blocker therapy on functional capacity criteria for heart transplant listing. <i>Journal of Heart and Lung Transplantation</i> , 2003, 22, 78-86.	0.6	48
11	Ischemic dysfunction in transgenic mice expressing troponin I lacking protein kinase C phosphorylation sites. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H835-H843.	3.2	45
12	Durable Ventricular Assist Device Support for Failing Systemic Morphologic Right Ventricle: Early Results. <i>Annals of Thoracic Surgery</i> , 2014, 98, 2122-2129.	1.3	43
13	Organ Allocation Around the World: Insights From the ISHLT International Registry for Heart and Lung Transplantation. <i>Journal of Heart and Lung Transplantation</i> , 2014, 33, 975-984.	0.6	38
14	Cardiac structure and function are altered in type 2 diabetes and Non-alcoholic fatty liver disease and associate with glycemic control. <i>Cardiovascular Diabetology</i> , 2015, 14, 23.	6.8	37
15	The effect of age on the relationship between cardiac and vascular function. <i>Mechanisms of Ageing and Development</i> , 2016, 153, 1-6.	4.6	35
16	The decline in heart transplantation in the UK. <i>BMJ: British Medical Journal</i> , 2011, 342, d2483-d2483.	2.3	33
17	Outcome following heart transplant assessment in adults with congenital heart disease. <i>Heart</i> , 2019, 105, 1741-1747.	2.9	31
18	Normal age-related changes in left ventricular function: Role of afterload and subendocardial dysfunction. <i>International Journal of Cardiology</i> , 2016, 223, 306-312.	1.7	30

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19	Long-Term Blocking of Calcium Channels in mdx Mice Results in Differential Effects on Heart and Skeletal Muscle. <i>American Journal of Pathology</i> , 2011, 178, 273-283.	3.8	29
20	Trends in long-term mechanical circulatory support for advanced heart failure in the UK. <i>European Journal of Heart Failure</i> , 2013, 15, 1185-1193.	7.1	29
21	Pregnancy in cardiac transplant recipients. <i>Clinical Transplantation</i> , 2016, 30, 1059-1065.	1.6	29
22	Effect of Physical Activity on Age-Related Changes in Cardiac Function and Performance in Women. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	2.6	27
23	Measurement of pulse wave velocity in normal ageing: comparison of Vicorder and magnetic resonance phase contrast imaging. <i>BMC Cardiovascular Disorders</i> , 2016, 16, 50.	1.7	27
24	A machine learning-based risk stratification model for ventricular tachycardia and heart failure in hypertrophic cardiomyopathy. <i>Computers in Biology and Medicine</i> , 2021, 135, 104648.	7.0	27
25	Unsupervised high-intensity interval training improves glycaemic control but not cardiovascular autonomic function in type 2 diabetes patients: A randomised controlled trial. <i>Diabetes and Vascular Disease Research</i> , 2019, 16, 69-76.	2.0	26
26	Development of de novo aortic valve incompetence in patients with the continuous-flow HeartWare ventricular assist device. <i>Journal of Heart and Lung Transplantation</i> , 2016, 35, 312-319.	0.6	25
27	Impact of aortic valve closure on adverse events and outcomes with the HeartWare ventricular assist device. <i>Journal of Heart and Lung Transplantation</i> , 2017, 36, 42-49.	0.6	25
28	Hemodynamic, Echocardiographic, and Exercise-Related Effects of the HeartWare Left Ventricular Assist Device in Advanced Heart Failure. <i>Congestive Heart Failure</i> , 2013, 19, 11-15.	2.0	24
29	An Extended Role of Continuous Flow Device in Pediatric Mechanical Circulatory Support. <i>Annals of Thoracic Surgery</i> , 2016, 102, 620-627.	1.3	24
30	Myocardial Recovery Strategy with Decommissioning for the HeartWare Left Ventricular Assist Device. <i>ASAIO Journal</i> , 2017, 63, 299-304.	1.6	24
31	Ex situ heart perfusion: The past, the present, and the future. <i>Journal of Heart and Lung Transplantation</i> , 2021, 40, 69-86.	0.6	23
32	Troponin I protein kinase C phosphorylation sites and ventricular function. <i>Cardiovascular Research</i> , 2004, 63, 245-255.	3.8	22
33	Overcoming barriers to engagement and adherence to a home-based physical activity intervention for patients with heart failure: a qualitative focus group study. <i>BMJ Open</i> , 2020, 10, e036382.	1.9	22
34	â€œBeingâ€™ a ventricular assist device recipient: A liminal existence. <i>Social Science and Medicine</i> , 2017, 190, 141-148.	3.8	21
35	Prognostic Value of Peak Oxygen Uptake in Patients Supported With Left Ventricular Assist Devices (PRO-VAD). <i>JACC: Heart Failure</i> , 2021, 9, 758-767.	4.1	20
36	Pathophysiology of exercise intolerance in chronic diseases: the role of diminished cardiac performance in mitochondrial and heart failure patients. <i>Open Heart</i> , 2017, 4, e000632.	2.3	19

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37	Peptide-conjugated phosphodiesterase oligomer-mediated exon skipping has benefits for cardiac function in mdx and Cmah <sup>-/-</sup> mdx mouse models of Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2018, 13, e0198897.	2.5	19
38	Subepicardial dysfunction leads to global left ventricular systolic impairment in patients with limb girdle muscular dystrophy 2I. <i>European Journal of Heart Failure</i> , 2013, 15, 986-994.	7.1	18
39	Beta-Blockers, Left and Right Ventricular Function, and In-Vivo Calcium Influx in Muscular Dystrophy Cardiomyopathy. <i>PLoS ONE</i> , 2013, 8, e57260.	2.5	18
40	Impact of age on the association between cardiac high-energy phosphate metabolism and cardiac power in women. <i>Heart</i> , 2018, 104, 111-118.	2.9	15
41	Pressure-calcium relationships in perfused mouse hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H2614-H2624.	3.2	14
42	Intolerance to $\beta$ -blockade in a mouse model of $\alpha$ -sarcoglycan-deficient muscular dystrophy cardiomyopathy. <i>European Journal of Heart Failure</i> , 2010, 12, 1163-1170.	7.1	14
43	Heterogeneous abnormalities of in-vivo left ventricular calcium influx and function in mouse models of muscular dystrophy cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 4.	3.3	14
44	Four-year outcomes with third-generation centrifugal left ventricular assist devices in an era of restricted transplantation. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 46, e35-e40.	1.4	14
45	Reduced cardiac volumes in chronic fatigue syndrome associate with plasma volume but not length of disease: a cohort study. <i>Open Heart</i> , 2016, 3, e000381.	2.3	14
46	The Myofilament Force-Calcium Relationship as a Target for Positive Inotropic Therapy in Congestive Heart Failure. <i>Cardiovascular Drugs and Therapy</i> , 2005, 19, 203-210.	2.6	12
47	Left ventricular functional, structural and energetic effects of normal aging: Comparison with hypertension. <i>PLoS ONE</i> , 2017, 12, e0177404.	2.5	12
48	Inotropic and energetic effects of altering the force-calcium relationship: Mechanisms, experimental results, and potential molecular targets. <i>Journal of Cardiac Failure</i> , 2000, 6, 144-156.	1.7	11
49	Absence of Cardiac Benefit with Early Combination ACE Inhibitor and Beta Blocker Treatment in mdx Mice. <i>Journal of Cardiovascular Translational Research</i> , 2015, 8, 198-207.	2.4	11
50	Comparison of cardiac output estimates by bioreactance and inert gas rebreathing methods during cardiopulmonary exercise testing. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 483-490.	1.2	11
51	A novel cardiac output response to stress test developed to improve diagnosis and monitoring of heart failure in primary care. <i>ESC Heart Failure</i> , 2018, 5, 703-712.	3.1	11
52	Patient survival and therapeutic outcome in the UK bridge to transplant left ventricular assist device population. <i>Heart</i> , 2019, 105, 291-296.	2.9	11
53	The introduction of a super-urgent heart allocation scheme in the UK: A 2-year review. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, 1109-1117.	0.6	11
54	Acceptability, Feasibility and Preliminary Evaluation of a Novel, Personalised, Home-Based Physical Activity Intervention for Chronic Heart Failure (Active-at-Home-HF): a Pilot Study. <i>Sports Medicine - Open</i> , 2019, 5, 45.	3.1	11

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55	In vivo $\beta$ -adrenergic responses and troponin I phosphorylation: anesthesia interactions. <i>Journal of Applied Physiology</i> , 2005, 98, 1163-1170.	2.5	10
56	Attenuation of adverse cardiac effects in prednisolone-treated $\beta$ -sarcoglycan-deficient mice by mineralocorticoid-receptor-antagonism. <i>Neuromuscular Disorders</i> , 2010, 20, 21-28.	0.6	10
57	Comparison of the Effects of ORG 30029, Dobutamine and High Perfusate Calcium on Function and Metabolism in Rat Heart. <i>Journal of Molecular and Cellular Cardiology</i> , 1998, 30, 2605-2612.	1.9	9
58	Diffusion Tensor Magnetic Resonance Imaging of the Heart. <i>Journal of the American College of Cardiology</i> , 2017, 69, 677-678.	2.8	9
59	Effects of drug abuse, smoking and alcohol on donor hearts and lungs. <i>Transplant International</i> , 2019, 32, 1019-1027.	1.6	9
60	Frailty and quality of life after invasive management for non-ST elevation acute coronary syndrome. <i>Heart</i> , 2022, 108, 203-211.	2.9	9
61	Disruption of embryonic ROCK signaling reproduces the sarcomeric phenotype of hypertrophic cardiomyopathy. <i>JCI Insight</i> , 2019, 4, .	5.0	9
62	Compensatory changes in Ca <sup>2+</sup> and myocardial O <sub>2</sub> consumption in $\beta$ -tropomyosin transgenic hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H2539-H2548.	3.2	8
63	NT-proBNP is a weak indicator of cardiac function and haemodynamic response to exercise in chronic heart failure. <i>ESC Heart Failure</i> , 2019, 6, 449-454.	3.1	8
64	Neutrophil to Lymphocyte Ratio Is Related to Thrombotic Complications and Survival in Continuous Flow Left Ventricular Assist Devices. <i>ASAIO Journal</i> , 2020, 66, 199-204.	1.6	8
65	Age-related decline in cardiac autonomic function is not attenuated with increased physical activity. <i>Oncotarget</i> , 2016, 7, 76390-76397.	1.8	7
66	First-in-man use of the MVAD axial-flow pump: Long-term outcome. <i>Journal of Heart and Lung Transplantation</i> , 2018, 37, 933-936.	0.6	6
67	238th ENMC International Workshop: Updating management recommendations of cardiac dystrophinopathy. Hoofddorp, The Netherlands, 30 November - 2 December 2018. <i>Neuromuscular Disorders</i> , 2019, 29, 634-643.	0.6	6
68	Impact of donor variables on heart transplantation outcomes in mechanically bridged versus standard recipients. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2019, 28, 455-464.	1.1	6
69	Left Ventricular Filling Pressures Contribute to Exercise Limitation in Patients with Continuous Flow Left Ventricular Assist Devices. <i>ASAIO Journal</i> , 2020, 66, 247-252.	1.6	6
70	Considerations for patients awaiting heart transplantation-Insights from the UK experience. <i>Journal of Thoracic Disease</i> , 2015, 7, 527-31.	1.4	6
71	High calcium and dobutamine positive inotropy in the perfused mouse heart: myofilament calcium responsiveness, energetic economy, and effects of protein kinase C inhibition. <i>BMC Physiology</i> , 2001, 1, 12.	3.6	5
72	Donor and recipient risk factor analysis of inferior postheart transplantation outcome in the era of durable mechanical assist devices. <i>Clinical Transplantation</i> , 2018, 32, e13390.	1.6	5

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73	Reproducibility of Inert Gas Rebreathing Method to Estimate Cardiac Output at Rest and During Cardiopulmonary Exercise Stress Testing. <i>International Journal of Sports Medicine</i> , 2019, 40, 125-132.	1.7	5
74	Initial conservative management strategy of HeartWare left ventricular assist device thrombosis with intravenous heparin or bivalirudin. <i>International Journal of Artificial Organs</i> , 2020, 43, 444-451.	1.4	5
75	The effect of age on mechanisms of exercise tolerance: Reduced arteriovenous oxygen difference causes lower oxygen consumption in older people. <i>Experimental Gerontology</i> , 2021, 149, 111340.	2.8	5
76	Disease Progression of Hypertrophic Cardiomyopathy: Modeling Using Machine Learning. <i>JMIR Medical Informatics</i> , 2022, 10, e30483.	2.6	5
77	Ventricular assist devices in transposition and failing systemic right ventricle: role of tricuspid valve replacement. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 62, .	1.4	5
78	The Challenge of Radiation-Induced Restrictive Cardiomyopathy and Outcomes After Heart Transplantation. <i>Journal of Cardiac Failure</i> , 2016, 22, 479-480.	1.7	4
79	The role of exercise hemodynamics in assessing patients with chronic heart failure and left ventricular assist devices. <i>Expert Review of Medical Devices</i> , 2019, 16, 891-898.	2.8	4
80	Association between heart rate variability and haemodynamic response to exercise in chronic heart failure. <i>Scandinavian Cardiovascular Journal</i> , 2019, 53, 77-82.	1.2	4
81	Markers of Right Ventricular Dysfunction Predict Maximal Exercise Capacity After Left Ventricular Assist Device Implantation. <i>ASAIO Journal</i> , 2021, 67, 284-289.	1.6	4
82	Does infection predispose to thrombosis during long-term ventricular assist device support?. <i>Artificial Organs</i> , 2022, , .	1.9	4
83	Dynamic Analysis of Exercise Oxygen Consumption Predicts Outcomes in Advanced Heart Failure. <i>Congestive Heart Failure</i> , 2007, 13, 313-318.	2.0	3
84	Editorial Comment: Ventricular assist devices for advanced heart failure: evidence that cannot be ignored. <i>European Journal of Cardio-thoracic Surgery</i> , 2013, 43, 1242-1243.	1.4	3
85	Elevated brain natriuretic peptide levels in chronic fatigue syndrome associate with cardiac dysfunction: a case control study. <i>Open Heart</i> , 2017, 4, e000697.	2.3	3
86	"We're like a gang, we stick together": experiences of ventricular assist device communities. <i>European Journal of Cardiovascular Nursing</i> , 2018, 17, 399-407.	0.9	3
87	Opportunities and challenges of a novel cardiac output response to stress (CORS) test to enhance diagnosis of heart failure in primary care: qualitative study. <i>BMJ Open</i> , 2019, 9, e028122.	1.9	3
88	Peak atrio-ventricular mechanics predicts exercise tolerance in heart failure patients. <i>International Journal of Cardiology</i> , 2022, 359, 84-90.	1.7	3
89	Assessment of ventricular function in mouse models of muscular dystrophy: A comparison of MRI with conductance catheter. <i>Neuromuscular Disorders</i> , 2015, 25, 24-31.	0.6	2
90	Using existing technology better: Improving outcomes with the HeartWare left ventricular assist device. <i>International Journal of Cardiology</i> , 2021, 331, 35-39.	1.7	2

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91	Gender differences in the assessment, decision making and outcomes for ventricular assist devices and heart transplantation: An analysis from a UK transplant centre. <i>Clinical Transplantation</i> , 2022, , e14666.	1.6	2
92	Feasibility of the cardiac output response to stress test in suspected heart failure patients. <i>Family Practice</i> , 2022, , .	1.9	1
93	55â€¦High serum parathyroid hormone levels are not associated with endothelial function, vascular stiffness or early adverse outcomes after invasive management of non-st elevation myocardial infarction in high-risk older patients. <i>Heart</i> , 2017, 103, A43.1-A43.	2.9	0
94	57â€¦Serum total vitamin d levels are not associated with endothelial dysfunction, vascular stiffness or early adverse outcomes after invasive management of non-st elevation acute coronary syndrome in older patients. <i>Heart</i> , 2017, 103, A44.1-A44.	2.9	0
95	Exercise Hemodynamics to Evaluate the Breathless Patient: Defining the Normal Pulmonary Arterial Wedge Pressure. <i>Journal of Cardiac Failure</i> , 2019, 25, 123-124.	1.7	0
96	127â€¦Developmental rock downregulation disrupts sarcomeric structure resulting in the development of hypertrophic cardiomyopathy. , 2019, , .		0
97	Cardiac function is not associated with glucose control in older women. <i>Experimental Gerontology</i> , 2019, 116, 31-36.	2.8	0
98	What are the Physiological Benefits of Increased Daily Number of Steps in Middle-Aged Women?. <i>American Journal of the Medical Sciences</i> , 2020, 360, 591-595.	1.1	0
99	Comparison of cardiac output estimates by echocardiography and bioreactance at rest and peak dobutamine stress test in heart failure patients with preserved ejection fraction. <i>Echocardiography</i> , 2020, 37, 1603-1609.	0.9	0
100	Validity of Hemodynamic Monitoring Using Inert Gas Rebreathing Method in Patients With Chronic Heart Failure and Those Implanted With a Left Ventricular Assist Device. <i>Journal of Cardiac Failure</i> , 2021, 27, 414-418.	1.7	0