

Alun D Hughes

List of Publications by Year in descending order

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686
papers

25,749
citations

9428

76
h-index

14386

132
g-index

751
all docs

751
docs citations

751
times ranked

30402
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Impact of Blood Pressure-“Lowering Drugs on Central Aortic Pressure and Clinical Outcomes. <i>Circulation</i> , 2006, 113, 1213-1225.	1.6	2,091
2	A perspective of polyamine metabolism. <i>Biochemical Journal</i> , 2003, 376, 1-14.	1.7	835
3	Development and Validation of a New Adenosine-Independent Index of Stenosis Severity From Coronary Wave-“Intensity Analysis. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1392-1402.	1.2	579
4	Metabolite Profiling and Cardiovascular Event Risk. <i>Circulation</i> , 2015, 131, 774-785.	1.6	547
5	Endothelial von Willebrand factor regulates angiogenesis. <i>Blood</i> , 2011, 117, 1071-1080.	0.6	419
6	Segmentation of blood vessels from red-free and fluorescein retinal images. <i>Medical Image Analysis</i> , 2007, 11, 47-61.	7.0	367
7	Evidence of a Dominant Backward-Propagating “Suction”Wave Responsible for Diastolic Coronary Filling in Humans, Attenuated in Left Ventricular Hypertrophy. <i>Circulation</i> , 2006, 113, 1768-1778.	1.6	344
8	Abnormalities of Retinal Microvascular Structure and Risk of Mortality From Ischemic Heart Disease and Stroke. <i>Hypertension</i> , 2006, 47, 975-981.	1.3	322
9	Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2. <i>Nature</i> , 2022, 601, 110-117.	13.7	280
10	First-in-man safety evaluation of renal denervation for chronic systolic heart failure: Primary outcome from REACH-Pilot study. <i>International Journal of Cardiology</i> , 2013, 162, 189-192.	0.8	274
11	Cohort Profile: Updating the cohort profile for the MRC National Survey of Health and Development: a new clinic-based data collection for ageing research. <i>International Journal of Epidemiology</i> , 2011, 40, e1-e9.	0.9	257
12	Blood flow and vessel mechanics in a physiologically realistic model of a human carotid arterial bifurcation. <i>Journal of Biomechanics</i> , 2000, 33, 975-984.	0.9	253
13	Cardiovascular and metabolic effects of metformin in patients with type 1 diabetes (REMOVAL): a double-blind, randomised, placebo-controlled trial. <i>Lancet Diabetes and Endocrinology</i> , 2017, 5, 597-609.	5.5	248
14	Differences in smoking associated DNA methylation patterns in South Asians and Europeans. <i>Clinical Epigenetics</i> , 2014, 6, 4.	1.8	246
15	The Relationship Between Metabolic Risk Factors and Incident Cardiovascular Disease in Europeans, South Asians, and African Caribbeans. <i>Journal of the American College of Cardiology</i> , 2013, 61, 1777-1786.	1.2	237
16	Cardiac and vascular pathophysiology in hypertension. <i>British Heart Journal</i> , 2003, 89, 1104-1109.	2.2	231
17	Genomic and phenotypic insights from an atlas of genetic effects on DNA methylation. <i>Nature Genetics</i> , 2021, 53, 1311-1321.	9.4	218
18	Diagnostic Classification of the Instantaneous Wave-Free Ratio Is Equivalent to Fractional Flow Reserve and Is Not Improved With Adenosine Administration. <i>Journal of the American College of Cardiology</i> , 2013, 61, 1409-1420.	1.2	209

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19	Retinal vascular tree morphology: a semi-automatic quantification. IEEE Transactions on Biomedical Engineering, 2002, 49, 912-917.	2.5	203
20	Circulating MicroRNA-122 Is Associated With the Risk of New-Onset Metabolic Syndrome and Type 2 Diabetes. Diabetes, 2017, 66, 347-357.	0.3	199
21	Diabetes risk and amino acid profiles: cross-sectional and prospective analyses of ethnicity, amino acids and diabetes in a South Asian and European cohort from the SABRE (Southall And Brent) Tj ETQq1 1 0.7843149gBT / Overlock 1	1.0	176
22	Accuracy of Cuff-Measured Blood Pressure. Journal of the American College of Cardiology, 2017, 70, 572-586.	1.2	186
23	Tissue Doppler E/E' ratio is a powerful predictor of primary cardiac events in a hypertensive population: an ASCOT substudy. European Heart Journal, 2010, 31, 747-752.	1.0	176
24	Validation of non-invasive central blood pressure devices: ARTERY Society task force consensus statement on protocol standardization. European Heart Journal, 2017, 38, 2805-2812.	1.0	175
25	Metabolomic Profiling of Statin Use and Genetic Inhibition of HMG-CoA Reductase. Journal of the American College of Cardiology, 2016, 67, 1200-1210.	1.2	173
26	Pre-eclampsia, antiretroviral therapy, and immune reconstitution. Lancet, The, 2002, 360, 1152-1154.	6.3	161
27	Classification performance of instantaneous wave-free ratio (iFR) and fractional flow reserve in a clinical population of intermediate coronary stenoses: results of the ADVISE registry. EuroIntervention, 2013, 9, 91-101.	1.4	161
28	The interaction of the SRA domain of ICBP90 with a novel domain of DNMT1 is involved in the regulation of VEGF gene expression. Oncogene, 2008, 27, 2187-2197.	2.6	158
29	Baseline Instantaneous Wave-Free Ratio as a Pressure-Only Estimation of Underlying Coronary Flow Reserve. Circulation: Cardiovascular Interventions, 2014, 7, 492-502.	1.4	152
30	Effects of blood pressure lowering and intensive glucose control on the incidence and progression of retinopathy in patients with type 2 diabetes mellitus: a randomised controlled trial. Diabetologia, 2009, 52, 2027-2036.	2.9	150
31	Tyrosine kinase inhibitors block calcium channel currents in vascular smooth muscle cells. Biochemical and Biophysical Research Communications, 1992, 189, 1620-1623.	1.0	147
32	Reconstruction of blood flow patterns in a human carotid bifurcation: A combined CFD and MRI study. Journal of Magnetic Resonance Imaging, 2000, 11, 299-311.	1.9	147
33	The arterial reservoir pressure increases with aging and is the major determinant of the aortic augmentation index. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H580-H586.	1.5	139
34	Fluid structure interaction of patient specific abdominal aortic aneurysms: a comparison with solid stress models. BioMedical Engineering OnLine, 2006, 5, 33.	1.3	138
35	Meta-Analysis of Dose-Response Relationships for Hydrochlorothiazide, Chlorthalidone, and Bendroflumethiazide on Blood Pressure, Serum Potassium, and Urate. Hypertension, 2012, 59, 1104-1109.	1.3	136
36	Insulin Resistance and Truncal Obesity as Important Determinants of the Greater Incidence of Diabetes in Indian Asians and African Caribbeans Compared With Europeans. Diabetes Care, 2013, 36, 383-393.	4.3	136

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37	Use of simultaneous pressure and velocity measurements to estimate arterial wave speed at a single site in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H878-H885.	1.5	134
38	Wave-energy patterns in carotid, brachial, and radial arteries: a noninvasive approach using wave-intensity analysis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H270-H276.	1.5	131
39	A Meta-Analysis of the Mechanism of Blood Pressure Change With Aging. <i>Journal of the American College of Cardiology</i> , 2009, 54, 2087-2092.	1.2	127
40	Inhibition of Carbonic Anhydrase Accounts for the Direct Vascular Effects of Hydrochlorothiazide. <i>Hypertension</i> , 1999, 33, 1043-1048.	1.3	122
41	Curvature and tortuosity of the superficial femoral artery: a possible risk factor for peripheral arterial disease. <i>Journal of Applied Physiology</i> , 2006, 101, 1412-1418.	1.2	119
42	Platelet-derived growth factor (PDGF): Actions and mechanisms in vascular smooth muscle. <i>General Pharmacology</i> , 1996, 27, 1079-1089.	0.7	117
43	Thiazide-Induced Vasodilation in Humans Is Mediated by Potassium Channel Activation. <i>Hypertension</i> , 1998, 32, 1071-1076.	1.3	116
44	Haemodynamic effects of changes in atrioventricular and interventricular delay in cardiac resynchronisation therapy show a consistent pattern: analysis of shape, magnitude and relative importance of atrioventricular and interventricular delay. <i>Heart</i> , 2006, 92, 1628-1634.	1.2	116
45	Recent developments in near-infrared spectroscopy (NIRS) for the assessment of local skeletal muscle microvascular function and capacity to utilise oxygen. <i>Artery Research</i> , 2016, 16, 25.	0.3	116
46	Inter-individual variations in wall shear stress and mechanical stress distributions at the carotid artery bifurcation of healthy humans. <i>Journal of Biomechanics</i> , 2002, 35, 1367-1377.	0.9	114
47	Fluid-structure interaction analysis of a patient-specific right coronary artery with physiological velocity and pressure waveforms. <i>Communications in Numerical Methods in Engineering</i> , 2009, 25, 565-580.	1.3	111
48	Pre-Angioplasty Instantaneous Wave-Free Ratio Pullback Provides Virtual Intervention and Predicts Hemodynamic Outcome for Serial Lesions and Diffuse Coronary Artery Disease. <i>JACC: Cardiovascular Interventions</i> , 2014, 7, 1386-1396.	1.1	107
49	Large-scale genome-wide analysis identifies genetic variants associated with cardiac structure and function. <i>Journal of Clinical Investigation</i> , 2017, 127, 1798-1812.	3.9	106
50	Quantification of topological changes in retinal vascular architecture in essential and malignant hypertension. <i>Journal of Hypertension</i> , 2006, 24, 889-894.	0.3	103
51	Computer algorithms for the automated measurement of retinal arteriolar diameters. <i>British Journal of Ophthalmology</i> , 2001, 85, 74-79.	2.1	101
52	Hybrid iFR-FFR decision-making strategy: implications for enhancing universal adoption of physiology-guided coronary revascularisation. <i>EuroIntervention</i> , 2013, 8, 1157-1165.	1.4	99
53	Impact of Statin Therapy on Central Aortic Pressures and Hemodynamics. <i>Circulation</i> , 2009, 119, 53-61.	1.6	98
54	Ethnicity and prediction of cardiovascular disease: performance of QRISK2 and Framingham scores in a UK tri-ethnic prospective cohort study (SABRE "Southall And Brent REvisited"). <i>Heart</i> , 2014, 100, 60-67.	1.2	98

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55	Direct Vascular Effects of Furosemide in Humans. <i>Circulation</i> , 1997, 96, 1847-1852.	1.6	98
56	Limitations of Augmentation Index in the Assessment of Wave Reflection in Normotensive Healthy Individuals. <i>PLoS ONE</i> , 2013, 8, e59371.	1.1	97
57	Mechanisms of Myocardial Ischemia in Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2016, 68, 1651-1660.	1.2	92
58	Wave intensity analysis and the development of the reservoirâ€“wave approach. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 221-232.	1.6	91
59	Fluid-Wall Modelling of Mass Transfer in an Axisymmetric Stenosis: Effects of Shear-Dependent Transport Properties. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1119-1128.	1.3	90
60	Determination of optimal atrioventricular delay for cardiac resynchronization therapy using acute non-invasive blood pressure. <i>Europace</i> , 2006, 8, 358-366.	0.7	90
61	Calcium Channels in Vascular Smooth Muscle Cells. <i>Journal of Vascular Research</i> , 1995, 32, 353-370.	0.6	89
62	Wave Reflection Predicts Cardiovascular Events in Hypertensive Individuals Independent of Blood Pressure and Other Cardiovascular Risk Factors. <i>Journal of the American College of Cardiology</i> , 2010, 56, 24-30.	1.2	89
63	Arterial Pulse Wave Dynamics After Percutaneous Aortic Valve Replacement. <i>Circulation</i> , 2011, 124, 1565-1572.	1.6	89
64	Analysis of complex flow and the relationship between blood pressure, wall shear stress, and intima-media thickness in the human carotid artery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H1031-H1037.	1.5	87
65	Hepatitis C infection and clearance: impact on atherosclerosis and cardiometabolic risk factors. <i>Gut</i> , 2010, 59, 1135-1140.	6.1	87
66	Endothelium-dependent relaxation in isolated human arteries and veins. <i>Clinical Science</i> , 1987, 73, 547-552.	1.8	86
67	Metaâ€“analysis of the comparative effects of different classes of antihypertensive agents on brachial and central systolic blood pressure, and augmentation index. <i>British Journal of Clinical Pharmacology</i> , 2013, 75, 79-92.	1.1	85
68	Excess Pressure Integral Predicts Cardiovascular Events Independent of Other Risk Factors in the Conduit Artery Functional Evaluation Substudy of Anglo-Scandinavian Cardiac Outcomes Trial. <i>Hypertension</i> , 2014, 64, 60-68.	1.3	85
69	Sex Dimorphism in the Myocardialâ€“Response to Aortic Stenosis. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 962-973.	2.3	85
70	Effect of antihypertensive treatment on retinal microvascular changes in hypertension. <i>Journal of Hypertension</i> , 2008, 26, 1703-1707.	0.3	84
71	Inhibition of human vascular smooth muscle cell proliferation by lovastatin: the role of isoprenoid intermediates of cholesterol synthesis. <i>European Journal of Clinical Investigation</i> , 1994, 24, 766-772.	1.7	83
72	Retinal vascular network architecture in low-birth-weight men. <i>Journal of Hypertension</i> , 1997, 15, 1449-1454.	0.3	83

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73	Differences in the Magnitude of Wave Reflection Account for Differential Effects of Amlodipine-Versus Atenolol-Based Regimens on Central Blood Pressure. <i>Hypertension</i> , 2009, 54, 724-730.	1.3	81
74	Reproducibility Study of Magnetic Resonance Image-Based Computational Fluid Dynamics Prediction of Carotid Bifurcation Flow. <i>Annals of Biomedical Engineering</i> , 2003, 31, 142-151.	1.3	80
75	Body Fat Is Associated With Reduced Aortic Stiffness Until Middle Age. <i>Hypertension</i> , 2013, 61, 1322-1327.	1.3	80
76	Analysis of Flow Disturbance in a Stenosed Carotid Artery Bifurcation Using Two-Equation Transitional and Turbulence Models. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 061008.	0.6	79
77	Attenuation of Wave Reflection by Wave Entrapment Creates a "Horizon Effect" in the Human Aorta. <i>Hypertension</i> , 2012, 60, 778-785.	1.3	79
78	The actions of calcitonin gene related peptide and vasoactive intestinal peptide as vasodilators in man in vivo and in vitro.. <i>British Journal of Clinical Pharmacology</i> , 1987, 24, 139-144.	1.1	76
79	Forward and backward waves in the arterial system: impedance or wave intensity analysis?. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 207-210.	1.6	76
80	Thrombospondin-1 Is a Potent Mitogen and Chemoattractant for Human Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 17, 2107-2114.	1.1	75
81	Reduced systolic wave generation and increased peripheral wave reflection in chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H557-H562.	1.5	75
82	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009214.	1.3	75
83	pp60c-src Increases Voltage-Operated Calcium Channel Currents in Vascular Smooth Muscle Cells. <i>Biochemical and Biophysical Research Communications</i> , 1995, 217, 1039-1044.	1.0	74
84	Combination of Ca ²⁺ -activated K ⁺ channel blockers inhibits acetylcholine-evoked nitric oxide release in rat superior mesenteric artery. <i>British Journal of Pharmacology</i> , 2006, 149, 560-572.	2.7	72
85	Reservoir and excess pressures predict cardiovascular events in high-risk patients. <i>International Journal of Cardiology</i> , 2014, 171, 31-36.	0.8	72
86	In vivo evidence for K _{Ca} channel opening properties of acetazolamide in the human vasculature. <i>British Journal of Pharmacology</i> , 2001, 132, 443-450.	2.7	71
87	Measurement of pulse wave velocity: site matters. <i>Journal of Hypertension</i> , 2007, 25, 383-389.	0.3	71
88	A feasibility study of the association of exposure to biomass smoke with vascular function, inflammation, and cellular aging. <i>Environmental Research</i> , 2014, 135, 165-172.	3.7	71
89	How do thiazide and thiazide-like diuretics lower blood pressure?. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2004, 5, 155-160.	1.0	69
90	Effects of tyrosine kinase inhibitors on the contractility of rat mesenteric resistance arteries. <i>British Journal of Pharmacology</i> , 1995, 114, 1266-1272.	2.7	66

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91	Hypertensive Disorders of Pregnancy and Offspring Cardiac Structure and Function in Adolescence. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	66
92	<scp>K</scp>_V7 channels are involved in hypoxia-induced vasodilatation of porcine coronary arteries. <i>British Journal of Pharmacology</i> , 2014, 171, 69-82.	2.7	65
93	Exercise Central (Aortic) Blood Pressure Is Predominantly Driven by Forward Traveling Waves, Not Wave Reflection. <i>Hypertension</i> , 2013, 62, 175-182.	1.3	63
94	Effect of Monthly, High-Dose, Long-Term Vitamin D Supplementation on Central Blood Pressure Parameters: A Randomized Controlled Trial Substudy. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	63
95	The fractal heart “embracing mathematics in the cardiology clinic. <i>Nature Reviews Cardiology</i> , 2017, 14, 56-64.	6.1	63
96	Effects of transmural pressure and wall shear stress on LDL accumulation in the arterial wall: a numerical study using a multilayered model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H3148-H3157.	1.5	62
97	Importance of the aortic reservoir in determining the shape of the arterial pressure waveform “The forgotten lessons of Frank. <i>Artery Research</i> , 2007, 1, 40.	0.3	62
98	Ethnicity-specific obesity cut-points in the development of Type 2 diabetes “a prospective study including three ethnic groups in the United Kingdom. <i>Diabetic Medicine</i> , 2015, 32, 226-234.	1.2	62
99	Ethnic Differences in Associations Between Blood Pressure and Stroke in South Asian and European Men. <i>Hypertension</i> , 2015, 66, 481-488.	1.3	62
100	Changes in the behavioural determinants of health during the COVID-19 pandemic: gender, socioeconomic and ethnic inequalities in five British cohort studies. <i>Journal of Epidemiology and Community Health</i> , 2021, 75, 1136-1142.	2.0	62
101	Cerebral Blood Flow and Cognitive Functioning in a Community-Based, Multi-Ethnic Cohort: The SABRE Study. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 279.	1.7	61
102	An activated-platelet-sensitive nanocarrier enables targeted delivery of tissue plasminogen activator for effective thrombolytic therapy. <i>Journal of Controlled Release</i> , 2019, 300, 1-12.	4.8	61
103	The action of caffeine on inward barium current through voltage-dependent calcium channels in single rabbit ear artery cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1990, 416, 462-466.	1.3	60
104	Effects of protein tyrosine kinase inhibitors on voltage-operated calcium channel currents in vascular smooth muscle cells and pp60c-src kinase activity. <i>British Journal of Pharmacology</i> , 2000, 129, 1347-1354.	2.7	60
105	Sex-specific trajectories of measures of cardiovascular health during childhood and adolescence: A prospective cohort study. <i>Atherosclerosis</i> , 2018, 278, 190-196.	0.4	60
106	Chloride and bicarbonate transport in rat resistance arteries.. <i>Journal of Physiology</i> , 1991, 436, 57-73.	1.3	59
107	Hemodynamic Response to Intravenous Adenosine and Its Effect on Fractional Flow Reserve Assessment. <i>Circulation: Cardiovascular Interventions</i> , 2013, 6, 654-661.	1.4	59
108	Opening of Small and Intermediate Calcium-Activated Potassium Channels Induces Relaxation Mainly Mediated by Nitric-Oxide Release in Large Arteries and Endothelium-Derived Hyperpolarizing Factor in Small Arteries from Rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 842-850.	1.3	58

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109	Image-based carotid flow reconstruction: a comparison between MRI and ultrasound. <i>Physiological Measurement</i> , 2004, 25, 1495-1509.	1.2	57
110	Improvement of a retinal blood vessel segmentation method using the Insight Segmentation and Registration Toolkit (ITK). <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 892-5.	0.5	57
111	Carotid artery wave intensity in mid- to late-life predicts cognitive decline: the Whitehall II study. <i>European Heart Journal</i> , 2019, 40, 2300-2309.	1.0	57
112	Evaluating access to health and care services during lockdown by the COVID-19 survey in five UK national longitudinal studies. <i>BMJ Open</i> , 2021, 11, e045813.	0.8	57
113	Cholesteryl ester transfer protein (CETP) as a drug target for cardiovascular disease. <i>Nature Communications</i> , 2021, 12, 5640.	5.8	57
114	Force, membrane potential, and $[Ca^{2+}]_i$ during activation of rat mesenteric small arteries with norepinephrine, potassium, aluminum fluoride, and phorbol ester. <i>Effects of changes in pHi.. Circulation Research</i> , 1993, 73, 314-324.	2.0	56
115	Accuracy and Reproducibility of CFD Predicted Wall Shear Stress Using 3D Ultrasound Images. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 218-222.	0.6	56
116	Effect of tumour necrosis factor- α and interleukin 1β on endothelium-dependent relaxation in rat mesenteric resistance arteries in vitro. <i>British Journal of Pharmacology</i> , 2003, 138, 1285-1294.	2.7	55
117	A Comparison between the Effects of Hydrophobic and Hydrophilic Statins on Osteoclast Function In Vitro and Ovariectomy-Induced Bone Loss In Vivo. <i>Calcified Tissue International</i> , 2007, 81, 403-413.	1.5	55
118	Differences in cardiac microcirculatory wave patterns between the proximal left mainstem and proximal right coronary artery. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H1198-H1205.	1.5	55
119	Assessing the Causal Role of Body Mass Index on Cardiovascular Health in Young Adults. <i>Circulation</i> , 2018, 138, 2187-2201.	1.6	55
120	Yoga-Based Cardiac Rehabilitation After Acute Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2020, 75, 1551-1561.	1.2	55
121	Optimisation and evaluation of an electromagnetic tracking device for high-accuracy three-dimensional ultrasound imaging of the carotid arteries. <i>Ultrasound in Medicine and Biology</i> , 2001, 27, 957-968.	0.7	53
122	Quantification and characterisation of arteries in retinal images. <i>Computer Methods and Programs in Biomedicine</i> , 2000, 63, 133-146.	2.6	52
123	What is the role of the aorta in directing coronary blood flow?. <i>Heart</i> , 2008, 94, 1545-1547.	1.2	52
124	Blood transcriptional biomarkers of acute viral infection for detection of pre-symptomatic SARS-CoV-2 infection: a nested, case-control diagnostic accuracy study. <i>Lancet Microbe</i> , The, 2021, 2, e508-e517.	3.4	52
125	Differential Effects of Antihypertensive Treatment on the Retinal Microcirculation. <i>Hypertension</i> , 2009, 54, 405-408.	1.3	51
126	Differential Effects of Antihypertensive Treatment on Left Ventricular Diastolic Function. <i>Journal of the American College of Cardiology</i> , 2010, 55, 1875-1881.	1.2	50

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127	Contrasting effect of different cardiothoracic operations on echocardiographic right ventricular long axis velocities, and implications for interpretation of post-operative values. <i>International Journal of Cardiology</i> , 2013, 165, 151-160.	0.8	50
128	Impact of Size at Birth on the Microvasculature: The Avon Longitudinal Study of Parents and Children. <i>Pediatrics</i> , 2007, 120, e1225-e1228.	1.0	49
129	Evaluation of C-reactive protein prior to and on-treatment as a predictor of benefit from atorvastatin: observations from the Anglo-Scandinavian Cardiac Outcomes Trial. <i>European Heart Journal</i> , 2012, 33, 486-494.	1.0	48
130	Ethnic differences in associations between fat deposition and incident diabetes and underlying mechanisms: The SABRE study. <i>Obesity</i> , 2015, 23, 699-706.	1.5	48
131	Candesartan- and Atenolol-Based Treatments Induce Different Patterns of Carotid Artery and Left Ventricular Remodeling in Hypertension. <i>Stroke</i> , 2006, 37, 2381-2384.	1.0	47
132	Computational Analysis of Oxygen Transport in the Retinal Arterial Network. <i>Current Eye Research</i> , 2009, 34, 945-956.	0.7	47
133	Postjunctional α_2 -adrenoceptors mediate vasoconstriction in human subcutaneous resistance vessels. <i>British Journal of Pharmacology</i> , 1989, 97, 829-834.	2.7	46
134	Activation of endogenous c-Src or a related tyrosine kinase by intracellular (pY)EEI peptide increases voltage-operated calcium channel currents in rabbit ear artery cells. <i>FEBS Letters</i> , 1996, 399, 63-66.	1.3	46
135	Comparison of Simultaneous Measurements of Blood Pressure by Tail-Cuff and Carotid Arterial Methods in Conscious Spontaneously Hypertensive and Wistar-Kyoto Rats. <i>Clinical and Experimental Hypertension</i> , 2006, 28, 57-72.	0.5	46
136	Computational Modeling of LDL and Albumin Transport in an In Vivo CT Image-Based Human Right Coronary Artery. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 021003.	0.6	46
137	When is an optimization not an optimization? Evaluation of clinical implications of information content (signal-to-noise ratio) in optimization of cardiac resynchronization therapy, and how to measure and maximize it. <i>Heart Failure Reviews</i> , 2011, 16, 277-290.	1.7	46
138	High fat and muscle each contribute to excess cardiometabolic risk in South Asians, independent of visceral adipose tissue. <i>Obesity</i> , 2014, 22, 2071-2079.	1.5	46
139	Association of Retinopathy and Retinal Microvascular Abnormalities With Stroke and Cerebrovascular Disease. <i>Stroke</i> , 2016, 47, 2862-2864.	1.0	46
140	Early vascular damage from smoking and alcohol in teenage years: the ALSPAC study. <i>European Heart Journal</i> , 2019, 40, 345-353.	1.0	46
141	Physical Activity, Sedentary Time and Physical Capability in Early Old Age: British Birth Cohort Study. <i>PLoS ONE</i> , 2015, 10, e0126465.	1.1	46
142	Reconstruction and Quantification of the Carotid Artery Bifurcation From 3-D Ultrasound Images. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 567-583.	5.4	45
143	Ethnicity and Left Ventricular Diastolic Function in Hypertension. <i>Journal of the American College of Cardiology</i> , 2008, 52, 1015-1021.	1.2	45
144	South Asian men have different patterns of coronary artery disease when compared with European men. <i>International Journal of Cardiology</i> , 2008, 129, 406-413.	0.8	45

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145	NS11021, a novel opener of large-conductance Ca ²⁺ -activated K ⁺ channels, enhances erectile responses in rats. <i>British Journal of Pharmacology</i> , 2009, 158, 1465-1476.	2.7	45
146	Determinants of Retinal Microvascular Architecture in Normal Subjects. <i>Microcirculation</i> , 2009, 16, 159-166.	1.0	45
147	Real-Time Dynamic Carbon Dioxide Administration. <i>Journal of the American College of Cardiology</i> , 2010, 56, 1832-1837.	1.2	45
148	Test-retest repeatability of cardiopulmonary exercise test variables in patients with cardiac or respiratory disease. <i>European Journal of Preventive Cardiology</i> , 2014, 21, 445-453.	0.8	45
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