Keith Channon

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18,970 125 335 77 h-index g-index citations papers 6.51 368 8.3 22,151 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
335	Mechanisms of increased vascular superoxide production in human diabetes mellitus: role of NAD(P)H oxidase and endothelial nitric oxide synthase. <i>Circulation</i> , 2002 , 105, 1656-62	16.7	824
334	Regulation of endothelial nitric oxide synthase by tetrahydrobiopterin in vascular disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 413-20	9.4	425
333	Vascular superoxide production by NAD(P)H oxidase: association with endothelial dysfunction and clinical risk factors. <i>Circulation Research</i> , 2000 , 86, E85-90	15.7	366
332	Troponin elevation after percutaneous coronary intervention directly represents the extent of irreversible myocardial injury: insights from cardiovascular magnetic resonance imaging. <i>Circulation</i> , 2005 , 111, 1027-32	16.7	312
331	A myocardial Nox2 containing NAD(P)H oxidase contributes to oxidative stress in human atrial fibrillation. <i>Circulation Research</i> , 2005 , 97, 629-36	15.7	300
330	5-methyltetrahydrofolate rapidly improves endothelial function and decreases superoxide production in human vessels: effects on vascular tetrahydrobiopterin availability and endothelial nitric oxide synthase coupling. <i>Circulation</i> , 2006 , 114, 1193-201	16.7	293
329	Statins as anti-inflammatory agents in atherogenesis: molecular mechanisms and lessons from the recent clinical trials. <i>Current Pharmaceutical Design</i> , 2012 , 18, 1519-30	3.3	286
328	Detecting human coronary inflammation by imaging perivascular fat. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	285
327	Shear stress insensitivity of endothelial nitric oxide synthase expression as a genetic risk factor for coronary heart disease. <i>Circulation Research</i> , 2004 , 95, 841-7	15.7	265
326	Non-invasive detection of coronary inflammation using computed tomography and prediction of residual cardiovascular risk (the CRISP CT study): a post-hoc analysis of prospective outcome data. <i>Lancet, The</i> , 2018 , 392, 929-939	40	255
325	Impaired synaptic plasticity and motor learning in mice with a point mutation implicated in human speech deficits. <i>Current Biology</i> , 2008 , 18, 354-62	6.3	253
324	Tetrahydrobiopterin-dependent preservation of nitric oxide-mediated endothelial function in diabetes by targeted transgenic GTP-cyclohydrolase I overexpression. <i>Journal of Clinical Investigation</i> , 2003 , 112, 725-35	15.9	245
323	In vivo magnetic resonance imaging of acute brain inflammation using microparticles of iron oxide. <i>Nature Medicine</i> , 2007 , 13, 1253-8	50.5	243
322	Magnetic resonance imaging of endothelial adhesion molecules in mouse atherosclerosis using dual-targeted microparticles of iron oxide. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 77-83	9.4	221
321	Coronary artery superoxide production and nox isoform expression in human coronary artery disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 333-9	9.4	220
320	Reversal of cardiac hypertrophy and fibrosis from pressure overload by tetrahydrobiopterin: efficacy of recoupling nitric oxide synthase as a therapeutic strategy. <i>Circulation</i> , 2008 , 117, 2626-36	16.7	206
319	Functional effect of the C242T polymorphism in the NAD(P)H oxidase p22phox gene on vascular superoxide production in atherosclerosis. <i>Circulation</i> , 2000 , 102, 1744-7	16.7	200

(2015-2013)

318	Interactions between vascular wall and perivascular adipose tissue reveal novel roles for adiponectin in the regulation of endothelial nitric oxide synthase function in human vessels. <i>Circulation</i> , 2013 , 127, 2209-21	16.7	197
317	Effects of high-dose modified-release nicotinic acid on atherosclerosis and vascular function: a randomized, placebo-controlled, magnetic resonance imaging study. <i>Journal of the American College of Cardiology</i> , 2009 , 54, 1787-94	15.1	197
316	Nitric oxide modulates superoxide release and peroxynitrite formation in human blood vessels. Hypertension, 2002 , 39, 1088-94	8.5	196
315	Association of plasma asymmetrical dimethylarginine (ADMA) with elevated vascular superoxide production and endothelial nitric oxide synthase uncoupling: implications for endothelial function in human atherosclerosis. <i>European Heart Journal</i> , 2009 , 30, 1142-50	9.5	189
314	Differential expression of tissue factor protein in directional atherectomy specimens from patients with stable and unstable coronary syndromes. <i>Circulation</i> , 1995 , 91, 619-22	16.7	181
313	Stoichiometric relationships between endothelial tetrahydrobiopterin, endothelial NO synthase (eNOS) activity, and eNOS coupling in vivo: insights from transgenic mice with endothelial-targeted GTP cyclohydrolase 1 and eNOS overexpression. <i>Circulation Research</i> , 2005 , 97, 864-71	15.7	175
312	Risk of severe COVID-19 disease with ACE inhibitors and angiotensin receptor blockers: cohort study including 8.3 million people. <i>Heart</i> , 2020 , 106, 1503-1511	5.1	174
311	Plaque volume and occurrence and location of periprocedural myocardial necrosis after percutaneous coronary intervention: insights from delayed-enhancement magnetic resonance imaging, thrombolysis in myocardial infarction myocardial perfusion grade analysis, and	16.7	169
310	Dynamic changes of edema and late gadolinium enhancement after acute myocardial infarction and their relationship to functional recovery and salvage index. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 228-36	3.9	167
309	Increased endothelial tetrahydrobiopterin synthesis by targeted transgenic GTP-cyclohydrolase I overexpression reduces endothelial dysfunction and atherosclerosis in ApoE-knockout mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 445-50	9.4	167
308	Angiogenesis in the infarcted myocardium. Antioxidants and Redox Signaling, 2013, 18, 1100-13	8.4	164
307	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. <i>EClinicalMedicine</i> , 2021 , 31, 100683	11.3	164
306	Rapid, direct effects of statin treatment on arterial redox state and nitric oxide bioavailability in human atherosclerosis via tetrahydrobiopterin-mediated endothelial nitric oxide synthase coupling. <i>Circulation</i> , 2011 , 124, 335-45	16.7	163
305	Abnormal sympathoadrenal development and systemic hypotension in PHD3-/- mice. <i>Molecular and Cellular Biology</i> , 2008 , 28, 3386-400	4.8	163
304	Critical role for tetrahydrobiopterin recycling by dihydrofolate reductase in regulation of endothelial nitric-oxide synthase coupling: relative importance of the de novo biopterin synthesis versus salvage pathways. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28128-28136	5.4	153
303	Atrial sources of reactive oxygen species vary with the duration and substrate of atrial fibrillation: implications for the antiarrhythmic effect of statins. <i>Circulation</i> , 2011 , 124, 1107-17	16.7	153
302	Quantitative regulation of intracellular endothelial nitric-oxide synthase (eNOS) coupling by both tetrahydrobiopterin-eNOS stoichiometry and biopterin redox status: insights from cells with tet-regulated GTP cyclohydrolase I expression. <i>Journal of Biological Chemistry</i> , 2009 , 284, 1136-44	5.4	152
301	Adiponectin as a link between type 2 diabetes and vascular NADPH oxidase activity in the human arterial wall: the regulatory role of perivascular adipose tissue. <i>Diabetes</i> , 2015 , 64, 2207-19	0.9	149

300	Tetrahydrobiopterin: regulator of endothelial nitric oxide synthase in vascular disease. <i>Trends in Cardiovascular Medicine</i> , 2004 , 14, 323-7	6.9	149
299	Synthesis and recycling of tetrahydrobiopterin in endothelial function and vascular disease. <i>Nitric Oxide - Biology and Chemistry</i> , 2011 , 25, 81-8	5	148
298	Truncated estrogen receptor alpha 46-kDa isoform in human endothelial cells: relationship to acute activation of nitric oxide synthase. <i>Circulation</i> , 2003 , 107, 120-6	16.7	146
297	Reactive oxygen species mediate endothelium-dependent relaxations in tetrahydrobiopterin-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 496-502	9.4	146
296	Galectin-3 is an amplifier of inflammation in atherosclerotic plaque progression through macrophage activation and monocyte chemoattraction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 433-40	9.4	145
295	Tetrahydrobiopterin in cardiovascular health and disease. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 3040-77	8.4	140
294	Pivotal role for endothelial tetrahydrobiopterin in pulmonary hypertension. Circulation, 2005, 111, 2126	5 -363 7	136
293	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	9.5	127
292	Augmented BH4 by gene transfer restores nitric oxide synthase function in hyperglycemic human endothelial cells. <i>Cardiovascular Research</i> , 2005 , 65, 823-31	9.9	126
291	Smooth muscle cells in human atherosclerotic plaques express the fractalkine receptor CX3CR1 and undergo chemotaxis to the CX3C chemokine fractalkine (CX3CL1). <i>Circulation</i> , 2003 , 108, 2498-504	16.7	125
290	Association of atrial nicotinamide adenine dinucleotide phosphate oxidase activity with the development of atrial fibrillation after cardiac surgery. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 68-74	15.1	123
289	Rapid regulation of platelet activation in vivo by nitric oxide. <i>Circulation</i> , 2004 , 109, 1819-22	16.7	121
288	Resting myocardial blood flow is impaired in hibernating myocardium: a magnetic resonance study of quantitative perfusion assessment. <i>Circulation</i> , 2005 , 112, 3289-96	16.7	119
287	Endothelial Nox2 overexpression potentiates vascular oxidative stress and hemodynamic response to angiotensin II: studies in endothelial-targeted Nox2 transgenic mice. <i>Circulation Research</i> , 2007 , 100, 1016-25	15.7	117
286	Altered plasma versus vascular biopterins in human atherosclerosis reveal relationships between endothelial nitric oxide synthase coupling, endothelial function, and inflammation. <i>Circulation</i> , 2007 , 116, 2851-9	16.7	117
285	Systemic and vascular oxidation limits the efficacy of oral tetrahydrobiopterin treatment in patients with coronary artery disease. <i>Circulation</i> , 2012 , 125, 1356-66	16.7	113
284	Global impairment of brachial, carotid, and aortic vascular function in young smokers: direct quantification by high-resolution magnetic resonance imaging. <i>Journal of the American College of Cardiology</i> , 2004 , 44, 2056-64	15.1	113
283	Sca-1+ progenitors derived from embryonic stem cells differentiate into endothelial cells capable of vascular repair after arterial injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2006 , 26, 2244-	59.4	111

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282	MTHFR 677 C>T Polymorphism reveals functional importance for 5-methyltetrahydrofolate, not homocysteine, in regulation of vascular redox state and endothelial function in human atherosclerosis. <i>Circulation</i> , 2009 , 119, 2507-15	16.7	108
281	Nitric oxide synthase gene therapy rapidly reduces adhesion molecule expression and inflammatory cell infiltration in carotid arteries of cholesterol-fed rabbits. <i>Circulation</i> , 1999 , 99, 2979-82	<u>,</u> 16.7	107
280	Systemic regulation of vascular NAD(P)H oxidase activity and nox isoform expression in human arteries and veins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 1614-20	9.4	104
279	The metabolite BH4 controls Thell proliferation in autoimmunity and cancer. <i>Nature</i> , 2018 , 563, 564-568	8 50.4	103
278	Preoperative atorvastatin treatment in CABG patients rapidly improves vein graft redox state by inhibition of Rac1 and NADPH-oxidase activity. <i>Circulation</i> , 2010 , 122, S66-73	16.7	102
277	Nox2 NADPH oxidase has a critical role in insulin resistance-related endothelial cell dysfunction. Diabetes, 2013 , 62, 2130-4	0.9	100
276	Impact of microvascular obstruction on the assessment of coronary flow reserve, index of microcirculatory resistance, and fractional flow reserve after ST-segment elevation myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 1894-904	15.1	99
275	Global improvement of vascular function and redox state with low-dose folic acid: implications for folate therapy in patients with coronary artery disease. <i>Circulation</i> , 2007 , 115, 2262-70	16.7	98
274	Inflammation and immune responses in atherosclerosis. <i>Trends in Immunology</i> , 2002 , 23, 535-41	14.4	95
273	Mutual Regulation of Epicardial Adipose Tissue and Myocardial Redox State by PPAR-[Adiponectin Signalling. <i>Circulation Research</i> , 2016 , 118, 842-55	15.7	92
272	Hydroxychloroquine reduces heart rate by modulating the hyperpolarization-activated current If: Novel electrophysiological insights and therapeutic potential. <i>Heart Rhythm</i> , 2015 , 12, 2186-94	6.7	92
271	Endothelium-specific GTP cyclohydrolase I overexpression attenuates blood pressure progression in salt-sensitive low-renin hypertension. <i>Circulation</i> , 2008 , 117, 1045-54	16.7	88
270	GTP cyclohydrolase I gene transfer augments intracellular tetrahydrobiopterin in human endothelial cells: effects on nitric oxide synthase activity, protein levels and dimerisation. <i>Cardiovascular Research</i> , 2002 , 55, 838-49	9.9	88
269	Statins as regulators of redox state in the vascular endothelium: beyond lipid lowering. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 1198-215	8.4	85
268	The role of chemokines in atherosclerosis: recent evidence from experimental models and population genetics. <i>Current Opinion in Lipidology</i> , 2004 , 15, 145-9	4.4	85
267	Living without creatine: unchanged exercise capacity and response to chronic myocardial infarction in creatine-deficient mice. <i>Circulation Research</i> , 2013 , 112, 945-55	15.7	81
266	Nitric oxide synthase (nNOS) gene transfer modifies venous bypass graft remodeling: effects on vascular smooth muscle cell differentiation and superoxide production. <i>Circulation</i> , 2001 , 104, 1526-32	16.7	80
265	Nitric oxide synthase in atherosclerosis and vascular injury: insights from experimental gene therapy. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2000 , 20, 1873-81	9.4	80

264	Regulation of iNOS function and cellular redox state by macrophage Gch1 reveals specific requirements for tetrahydrobiopterin in NRF2 activation. <i>Free Radical Biology and Medicine</i> , 2015 , 79, 206-16	7.8	79
263	Functional comparison of the endothelial nitric oxide synthase Glu298Asp polymorphic variants in human endothelial cells. <i>Pharmacogenetics and Genomics</i> , 2004 , 14, 831-9		79
262	Nitric Oxide Modulates Metabolic Remodeling in Inflammatory Macrophages through TCA Cycle Regulation and Itaconate Accumulation. <i>Cell Reports</i> , 2019 , 28, 218-230.e7	10.6	77
261	Endothelial cell-specific reactive oxygen species production increases susceptibility to aortic dissection. <i>Circulation</i> , 2014 , 129, 2661-72	16.7	77
260	Reducing In-Stent Restenosis: Therapeutic Manipulation of miRNA in Vascular Remodeling and Inflammation. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 2314-27	15.1	77
259	Endothelial-specific Nox2 overexpression increases vascular superoxide and macrophage recruitment in ApoE?/? mice. <i>Cardiovascular Research</i> , 2012 , 94, 20-9	9.9	77
258	Effect of distal embolization on myocardial perfusion reserve after percutaneous coronary intervention: a quantitative magnetic resonance perfusion study. <i>Circulation</i> , 2007 , 116, 1458-64	16.7	77
257	Reduction of Neuropathic and Inflammatory Pain through Inhibition of the Tetrahydrobiopterin Pathway. <i>Neuron</i> , 2015 , 86, 1393-406	13.9	76
256	Impact of intravenous heparin on quantification of circulating microRNAs in patients with coronary artery disease. <i>Thrombosis and Haemostasis</i> , 2013 , 110, 609-15	7	75
255	Diagnosis of Microvascular Angina Using Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 969-979	15.1	74
254	Adverse ventricular remodeling and exacerbated NOS uncoupling from pressure-overload in mice lacking the beta3-adrenoreceptor. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 576-85	5.8	73
253	GCH1 haplotype determines vascular and plasma biopterin availability in coronary artery disease effects on vascular superoxide production and endothelial function. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 158-65	15.1	73
252	In vivo gene transfer of nitric oxide synthase enhances vasomotor function in carotid arteries from normal and cholesterol-Fed rabbits. <i>Circulation</i> , 1998 , 98, 1905-11	16.7	73
251	Myocardial redox state predicts in-hospital clinical outcome after cardiac surgery effects of short-term pre-operative statin treatment. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 60-7	0 ^{15.1}	72
250	Enhanced superoxide production in experimental venous bypass graft intimal hyperplasia: role of NAD(P)H oxidase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2001 , 21, 189-94	9.4	72
249	GTP cyclohydrolase I gene transfer reverses tetrahydrobiopterin deficiency and increases nitric oxide synthesis in endothelial cells and isolated vessels from diabetic rats. <i>FASEB Journal</i> , 2004 , 18, 190	06-29	71
248	Dihydrofolate reductase protects endothelial nitric oxide synthase from uncoupling in tetrahydrobiopterin deficiency. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1639-46	7.8	70
247	A specific role for eNOS-derived reactive oxygen species in atherosclerosis progression. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007 , 27, 1632-7	9.4	70

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246	Reciprocal effects of systemic inflammation and brain natriuretic peptide on adiponectin biosynthesis in adipose tissue of patients with ischemic heart disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2151-9	9.4	69	
245	Acute host-mediated endothelial injury after adenoviral gene transfer in normal rabbit arteries: impact on transgene expression and endothelial function. <i>Circulation Research</i> , 1998 , 82, 1253-62	15.7	69	
244	Targeting redox signaling in the vascular wall: from basic science to clinical practice. <i>Current Pharmaceutical Design</i> , 2009 , 15, 329-42	3.3	68	
243	Broad-spectrum CC-chemokine blockade by gene transfer inhibits macrophage recruitment and atherosclerotic plaque formation in apolipoprotein E-knockout mice. <i>Circulation</i> , 2004 , 110, 2460-6	16.7	67	
242	Integrated redox sensor and effector functions for tetrahydrobiopterin- and glutathionylation-dependent endothelial nitric-oxide synthase uncoupling. <i>Journal of Biological Chemistry</i> , 2013 , 288, 561-9	5.4	64	
241	The insulin-like growth factor-1 receptor is a negative regulator of nitric oxide bioavailability and insulin sensitivity in the endothelium. <i>Diabetes</i> , 2011 , 60, 2169-78	0.9	64	
240	A Randomized Trial of External Stenting for Saphenous Vein Grafts in Coronary Artery Bypass Grafting. <i>Annals of Thoracic Surgery</i> , 2015 , 99, 2039-45	2.7	63	
239	A global call for action to include gender in research impact assessment. <i>Health Research Policy and Systems</i> , 2016 , 14, 50	3.7	62	
238	Human CD68 promoter GFP transgenic mice allow analysis of monocyte to macrophage differentiation in vivo. <i>Blood</i> , 2014 , 124, e33-44	2.2	61	
237	Comparative efficacies and durations of action of phenoxybenzamine, verapamil/nitroglycerin solution, and papaverine as topical antispasmodics for radial artery coronary bypass grafting. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003 , 126, 1798-805	1.5	61	
236	How does coronary stent implantation impact on the status of the microcirculation during primary percutaneous coronary intervention in patients with ST-elevation myocardial infarction?. <i>European Heart Journal</i> , 2015 , 36, 3165-77	9.5	60	
235	Increased in-stent stenosis in ApoE knockout mice: insights from a novel mouse model of balloon angioplasty and stenting. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2007 , 27, 833-40	9.4	60	
234	Risks of myocarditis, pericarditis, and cardiac arrhythmias associated with COVID-19 vaccination or SARS-CoV-2 infection <i>Nature Medicine</i> , 2021 ,	50.5	60	
233	Visualization of activated platelets by targeted magnetic resonance imaging utilizing conformation-specific antibodies against glycoprotein IIb/IIIa. <i>Journal of Vascular Research</i> , 2009 , 46, 6-14	1.9	59	
232	The effect of alpha-synuclein knockdown on MPP+ toxicity in models of human neurons. <i>European Journal of Neuroscience</i> , 2008 , 28, 2459-73	3.5	59	
231	Monocyte recruitment in venous thrombus resolution. <i>Journal of Vascular Surgery</i> , 2006 , 43, 601-8	3.5	59	
230	Gene transfer of neuronal nitric oxide synthase to carotid body reverses enhanced chemoreceptor function in heart failure rabbits. <i>Circulation Research</i> , 2005 , 97, 260-7	15.7	59	
229	Relationship between the G894T polymorphism (Glu298Asp variant) in endothelial nitric oxide synthase and nitric oxide-mediated endothelial function in human atherosclerosis. <i>American Journal of Medical Genetics Part A</i> , 2001 , 100, 130-7		59	

228	Acute myocardial infarction activates distinct inflammation and proliferation pathways in circulating monocytes, prior to recruitment, and identified through conserved transcriptional responses in mice and humans. <i>European Heart Journal</i> , 2015 , 36, 1923-34	9.5	57
227	Gadolinium-Free Cardiac MR Stress T1-Mapping to Distinguish Epicardial From Microvascular Coronary Disease. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 957-968	15.1	56
226	Metabolic Regulation of Adipose Tissue Macrophage Function in Obesity and Diabetes. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 297-312	8.4	56
225	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segment-Elevation Myocardial Infarction: An OxAMI Study (Oxford Acute Myocardial Infarction). <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	56
224	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. <i>European Heart Journal</i> , 2014 , 35, 1971-80	9.5	52
223	Early changes in arterial structure and function following statin initiation: quantification by magnetic resonance imaging. <i>Atherosclerosis</i> , 2008 , 197, 951-8	3.1	51
222	Endothelial cell repopulation after stenting determines in-stent neointima formation: effects of bare-metal vs. drug-eluting stents and genetic endothelial cell modification. <i>European Heart Journal</i> , 2013 , 34, 3378-88	9.5	50
221	Induction of vascular GTP-cyclohydrolase I and endogenous tetrahydrobiopterin synthesis protect against inflammation-induced endothelial dysfunction in human atherosclerosis. <i>Circulation</i> , 2011 , 124, 1860-70	16.7	49
220	A leukocyte-mimetic magnetic resonance imaging contrast agent homes rapidly to activated endothelium and tracks with atherosclerotic lesion macrophage content. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2012 , 32, 1427-35	9.4	49
219	Reduced vascular NO bioavailability in diabetes increases platelet activation in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 1720-6	9.4	49
218	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 1	6.9	47
217	GTP cyclohydrolase I expression, protein, and activity determine intracellular tetrahydrobiopterin levels, independent of GTP cyclohydrolase feedback regulatory protein expression. <i>Journal of Biological Chemistry</i> , 2009 , 284, 13660-13668	5.4	47
216	Adenoviral gene transfer of nitric oxide synthase: High level expression in human vascular cells. <i>Cardiovascular Research</i> , 1996 , 32, 962-972	9.9	46
215	Endothelium-derived extracellular vesicles promote splenic monocyte mobilization in myocardial infarction. <i>JCI Insight</i> , 2017 , 2,	9.9	46
214	Metabolomic Profiling in Acute ST-Segment-Elevation Myocardial Infarction Identifies Succinate as an Early Marker of Human Ischemia-Reperfusion Injury. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	45
213	Flow patterns in externally stented saphenous vein grafts and development of intimal hyperplasia. Journal of Thoracic and Cardiovascular Surgery, 2015 , 150, 871-8	1.5	44
212	Final results of the HEALING IIB trial to evaluate a bio-engineered CD34 antibody coated stent (GenousBtent) designed to promote vascular healing by capture of circulating endothelial progenitor cells in CAD patients. <i>Atherosclerosis</i> , 2011 , 219, 245-52	3.1	44
211	Tetrahydrobiopterin (BH4), a cofactor for nNOS, restores gastric emptying and nNOS expression in female diabetic rats. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, G692-9	5.1	43

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210	nNOS gene transfer to RVLM improves baroreflex function in rats with chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1660-7	5.2	43	
209	Effect of in vivo gene transfer of nNOS in the PVN on renal nerve discharge in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H594-601	5.2	43	
208	Redox biomarkers in cardiovascular medicine. European Heart Journal, 2015, 36, 1576-82, 1582a-b	9.5	42	
207	Fractalkine promotes human monocyte survival via a reduction in oxidative stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2014 , 34, 2554-62	9.4	42	
206	GTP cyclohydrolase I/BH4 pathway protects EPCs via suppressing oxidative stress and thrombospondin-1 in salt-sensitive hypertension. <i>Hypertension</i> , 2010 , 56, 1137-44	8.5	42	
205	Tetrahydrobiopterin and alkylglycerol monooxygenase substantially alter the murine macrophage lipidome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2431-6	11.5	41	
204	Cell-autonomous role of endothelial GTP cyclohydrolase 1 and tetrahydrobiopterin in blood pressure regulation. <i>Hypertension</i> , 2014 , 64, 530-40	8.5	41	
203	Inflammatory cell recruitment in cardiovascular disease: murine models and potential clinical applications. <i>Clinical Science</i> , 2010 , 118, 641-55	6.5	41	
202	Novel role of the IGF-1 receptor in endothelial function and repair: studies in endothelium-targeted IGF-1 receptor transgenic mice. <i>Diabetes</i> , 2012 , 61, 2359-68	0.9	41	
201	Improved adenoviral vector for vascular gene therapy: beneficial effects on vascular function and inflammation. <i>Circulation Research</i> , 2001 , 88, 911-7	15.7	40	
200	Nox2 contributes to age-related oxidative damage to neurons and the cerebral vasculature. <i>Journal of Clinical Investigation</i> , 2019 , 129, 3374-3386	15.9	40	
199	Bi-modal dose-dependent cardiac response to tetrahydrobiopterin in pressure-overload induced hypertrophy and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 564-9	5.8	39	
198	Tetrahydrobiopterin: pleiotropic roles in cardiovascular pathophysiology. <i>Heart</i> , 2010 , 96, 1872-7	5.1	39	
197	Delivery and long-term expression of a 135 kb LDLR genomic DNA locus in vivo by hydrodynamic tail vein injection. <i>Journal of Gene Medicine</i> , 2007 , 9, 488-97	3.5	39	
196	Gene transfer of neuronal nitric oxide synthase into intracardiac Ganglia reverses vagal impairment in hypertensive rats. <i>Hypertension</i> , 2007 , 49, 380-8	8.5	38	
195	Predictive value of telomere length on outcome following acute myocardial infarction: evidence for contrasting effects of vascular vs. blood oxidative stress. <i>European Heart Journal</i> , 2017 , 38, 3094-3104	9.5	36	
194	Zero-Flow Pressure Measured Immediately After Primary Percutaneous Coronary Intervention for ST-Segment Elevation Myocardial Infarction Provides the Best Invasive Index for Predicting the Extent of Myocardial Infarction at 6 Months: An OxAMI Study (Oxford Acute Myocardial Infarction).	5	35	
193	JACC: Cardiovascular Interventions, 2015, 8, 1410-1421 Adenoviral-mediated delivery of a viral chemokine binding protein blocks CC-chemokine activity in vitro and in vivo. Immunobiology, 2003, 207, 187-96	3.4	35	

192	Minimally invasive saphenous vein harvesting: effects on endothelial and smooth muscle function. <i>Annals of Thoracic Surgery</i> , 2001 , 71, 1503-7	2.7	35
191	Acute exposure to apolipoprotein A1 inhibits macrophage chemotaxis in vitro and monocyte recruitment in vivo. <i>ELife</i> , 2016 , 5,	8.9	35
190	A novel role for endothelial tetrahydrobiopterin in mitochondrial redox balance. <i>Free Radical Biology and Medicine</i> , 2017 , 104, 214-225	7.8	34
189	Diabetes mellitus as a predictor for radial artery vasoreactivity in patients undergoing coronary artery bypass grafting. <i>Journal of the American College of Cardiology</i> , 2007 , 50, 1047-53	15.1	34
188	Adipose tissue-derived WNT5A regulates vascular redox signaling in obesity via USP17/RAC1-mediated activation of NADPH oxidases. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	33
187	The role of tetrahydrobiopterin in inflammation and cardiovascular disease. <i>Thrombosis and Haemostasis</i> , 2012 , 108, 832-9	7	33
186	Multi-modal magnetic resonance imaging quantifies atherosclerosis and vascular dysfunction in patients with type 2 diabetes mellitus. <i>Diabetes and Vascular Disease Research</i> , 2007 , 4, 44-8	3.3	33
185	Quantification and 3D reconstruction of atherosclerotic plaque components in apolipoprotein E knockout mice using ex vivo high-resolution MRI. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 2384-90	9.4	33
184	Minimally invasive vein harvesting significantly reduces pain and wound morbidity. <i>European Journal of Cardio-thoracic Surgery</i> , 2002 , 22, 381-6	3	32
183	Index of Microcirculatory Resistance as a Tool to Characterize Microvascular Obstruction and to Predict Infarct Size Regression in Patients With STEMI Undergoing Primary PCI. <i>JACC:</i> Cardiovascular Imaging, 2019 , 12, 837-848	8.4	32
182	Association of Maternal Antiangiogenic Profile at Birth With Early Postnatal Loss of Microvascular Density in Offspring of Hypertensive Pregnancies. <i>Hypertension</i> , 2016 , 68, 749-59	8.5	31
181	A GCH1 haplotype confers sex-specific susceptibility to pain crises and altered endothelial function in adults with sickle cell anemia. <i>American Journal of Hematology</i> , 2014 , 89, 187-93	7.1	31
180	Relationship of plasma neuropeptide Y with angiographic, electrocardiographic and coronary physiology indices of reperfusion during ST elevation myocardial infarction. <i>Heart</i> , 2013 , 99, 1198-203	5.1	31
179	Cardiomyocyte GTP cyclohydrolase 1 and tetrahydrobiopterin increase NOS1 activity and accelerate myocardial relaxation. <i>Circulation Research</i> , 2012 , 111, 718-27	15.7	31
178	Endothelium-specific GTP cyclohydrolase I overexpression accelerates refractory wound healing by suppressing oxidative stress in diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E1423-9	6	31
177	Long-term performance of an external stent for saphenous vein grafts: the VEST IV trial. <i>Journal of Cardiothoracic Surgery</i> , 2018 , 13, 117	1.6	31
176	Oxido-reductive regulation of vascular remodeling by receptor tyrosine kinase ROS1. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5159-74	15.9	30
175	Tetrahydrobiopterin supplementation reduces atherosclerosis and vascular inflammation in apolipoprotein E-knockout mice. <i>Clinical Science</i> , 2010 , 119, 131-42	6.5	30

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174	Transcriptional response of the neuromuscular system to exercise training and potential implications for ALS. <i>Journal of Neurochemistry</i> , 2009 , 109, 1714-24	6	30
173	Measurement of vascular reactive oxygen species production by chemiluminescence. <i>Methods in Molecular Medicine</i> , 2005 , 108, 73-89		30
172	Gene transfer of a broad spectrum CC-chemokine inhibitor reduces vein graft atherosclerosis in apolipoprotein E-knockout mice. <i>Circulation</i> , 2005 , 112, I235-41	16.7	30
171	Efficient adenoviral gene transfer to early venous bypass grafts: comparison with native vessels. <i>Cardiovascular Research</i> , 1997 , 35, 505-13	9.9	30
170	A key role for tetrahydrobiopterin-dependent endothelial NOS regulation in resistance arteries: studies in endothelial cell tetrahydrobiopterin-deficient mice. <i>British Journal of Pharmacology</i> , 2017 , 174, 657-671	8.6	29
169	RGS1 regulates myeloid cell accumulation in atherosclerosis and aortic aneurysm rupture through altered chemokine signalling. <i>Nature Communications</i> , 2015 , 6, 6614	17.4	29
168	Uncomplicated obesity is associated with abnormal aortic function assessed by cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 10	6.9	29
167	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. <i>European Heart Journal</i> , 2019 , 40, 1920-1929	9.5	28
166	Myocardial transfection of hypoxia inducible factor-1alpha via an adenoviral vector during coronary artery bypass grafting A multicenter phase I and safety study <i>Circulation Journal</i> , 2010 , 74, 916-24	2.9	28
165	Congenic mapping and genotyping of the tetrahydrobiopterin-deficient hph-1 mouse. <i>Molecular Genetics and Metabolism</i> , 2004 , 82, 251-4	3.7	28
164	EPR quantification of vascular nitric oxide production in genetically modified mouse models. <i>Nitric Oxide - Biology and Chemistry</i> , 2004 , 10, 156-61	5	28
163	Therapeutic strategies targeting endothelial function in humans: clinical implications. <i>Current Vascular Pharmacology</i> , 2012 , 10, 77-93	3.3	27
162	Radiochemical HPLC detection of arginine metabolism: measurement of nitric oxide synthesis and arginase activity in vascular tissue. <i>Nitric Oxide - Biology and Chemistry</i> , 2007 , 16, 1-9	5	27
161	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. <i>European Heart Journal</i> , 2020 , 41, 2168-2179	9.5	27
160	Maintenance of endothelial guanosine triphosphate cyclohydrolase I ameliorates diabetic nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 1139-50	12.7	26
159	CCL11 blocks IL-4 and GM-CSF signaling in hematopoietic cells and hinders dendritic cell differentiation via suppressor of cytokine signaling expression. <i>Journal of Leukocyte Biology</i> , 2009 , 85, 289-97	6.5	26
158	Roles for endothelial cell and macrophage Gch1 and tetrahydrobiopterin in atherosclerosis progression. <i>Cardiovascular Research</i> , 2018 , 114, 1385-1399	9.9	25
157	Activation of endothelial NAD(P)H oxidase accelerates early glomerular injury in diabetic mice. <i>Laboratory Investigation</i> , 2016 , 96, 25-36	5.9	25

156	A real time chemotaxis assay unveils unique migratory profiles amongst different primary murine macrophages. <i>PLoS ONE</i> , 2013 , 8, e58744	3.7	25
155	CCR2-mediated antiinflammatory effects of endothelial tetrahydrobiopterin inhibit vascular injury-induced accelerated atherosclerosis. <i>Circulation</i> , 2008 , 118, S71-7	16.7	25
154	⊞ynuclein and mitochondrial bioenergetics regulate tetrahydrobiopterin levels in a human dopaminergic model of Parkinson disease. <i>Free Radical Biology and Medicine</i> , 2014 , 67, 58-68	7.8	24
153	Mammalian 🛮 AMPK regulates intrinsic heart rate. <i>Nature Communications</i> , 2017 , 8, 1258	17.4	24
152	Clinical genetics of functionally mild non-coding GTP cyclohydrolase 1 (GCH1) polymorphisms modulating pain and cardiovascular risk. <i>Mutation Research - Reviews in Mutation Research</i> , 2008 , 659, 195-201	7	24
151	3D reconstruction of coronary arteries from 2D angiographic projections using non-uniform rational basis splines (NURBS) for accurate modelling of coronary stenoses. <i>PLoS ONE</i> , 2018 , 13, e01906	5 3 0 ⁷	24
150	The downstream regulation of chemokine receptor signalling: implications for atherosclerosis. <i>Mediators of Inflammation</i> , 2013 , 2013, 459520	4.3	23
149	Preoperative sCD40L levels predict risk of atrial fibrillation after off-pump coronary artery bypass graft surgery. <i>Circulation</i> , 2009 , 120, S170-6	16.7	23
148	Giant coronary artery aneurysm presenting as a mediastinal mass. <i>American Journal of Cardiology</i> , 1998 , 82, 1307-8, A11	3	23
147	Prediction of distal embolization during percutaneous coronary intervention in saphenous vein grafts. <i>American Journal of Cardiology</i> , 2007 , 99, 603-6	3	22
146	Angiography-derived index of microcirculatory resistance as a novel, pressure-wire-free tool to assess coronary microcirculation in ST elevation myocardial infarction. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 1395-1406	2.5	21
145	OCT imaging of aorto-coronary vein graft pathology modified by external stenting: 1-year post-surgery. <i>European Heart Journal Cardiovascular Imaging</i> , 2016 , 17, 1290-1295	4.1	21
144	Endothelial dysfunction promotes the transition from compensatory renal hypertrophy to kidney injury after unilateral nephrectomy in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, F1402-8	4.3	21
143	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in the CRISP-CT Study. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 755-757	15.1	21
142	GTP cyclohydrolase I prevents diabetic-impaired endothelial progenitor cells and wound healing by suppressing oxidative stress/thrombospondin-1. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E1120-31	6	20
141	The pathogenesis of atherosclerosis. <i>Medicine</i> , 2014 , 42, 480-484	0.6	20
140	Long-term physiologically regulated expression of the low-density lipoprotein receptor in vivo using genomic DNA mini-gene constructs. <i>Molecular Therapy</i> , 2010 , 18, 317-26	11.7	20
139	Reproducibility and accuracy of automated measurement for dynamic arterial lumen area by cardiovascular magnetic resonance. <i>International Journal of Cardiovascular Imaging</i> , 2009 , 25, 797-808	2.5	20

138	A tool for predicting the outcome of reperfusion in ST-elevation myocardial infarction using age, thrombotic burden and index of microcirculatory resistance (ATI score). <i>EuroIntervention</i> , 2016 , 12, 122	23 ³ 1 ¹ 230) ²⁰
137	Electronic Health Informatics Data To Describe Clearance Dynamics of Hepatitis B Surface Antigen (HBsAg) and e Antigen (HBeAg) in Chronic Hepatitis B Virus Infection. <i>MBio</i> , 2019 , 10,	7.8	19
136	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. <i>Nature</i> , 2020 , 587, 460-465	50.4	19
135	Modulation of tissue factor protein expression in experimental venous bypass grafts. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 1997 , 17, 1313-9	9.4	19
134	Tetrahydrobiopterin Protects Against Hypertrophic Heart Disease Independent of Myocardial Nitric Oxide Synthase Coupling. <i>Journal of the American Heart Association</i> , 2016 , 5, e003208	6	19
133	JCAD, a Gene at the 10p11 Coronary Artery Disease Locus, Regulates Hippo Signaling in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1711-1722	9.4	19
132	Maximising value from a United Kingdom Biomedical Research Centre: study protocol. <i>Health Research Policy and Systems</i> , 2017 , 15, 70	3.7	18
131	A requirement for Gch1 and tetrahydrobiopterin in embryonic development. <i>Developmental Biology</i> , 2015 , 399, 129-138	3.1	18
130	Loss of NRF2 impairs gastric nitrergic stimulation and function. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 619-25	7.8	18
129	Enhanced K(+)-channel-mediated endothelium-dependent local and conducted dilation of small mesenteric arteries from ApoE(-/-) mice. <i>Cardiovascular Research</i> , 2011 , 92, 199-208	9.9	18
128	Tetrahydrobiopterin: a vascular redox target to improve endothelial function. <i>Current Vascular Pharmacology</i> , 2012 , 10, 705-8	3.3	18
127	Polybacterial Periodontal Pathogens Alter Vascular and Gut BH4/nNOS/NRF2-Phase II Enzyme Expression. <i>PLoS ONE</i> , 2015 , 10, e0129885	3.7	18
126	The ATI score (age-thrombus burden-index of microcirculatory resistance) determined during primary percutaneous coronary intervention predicts final infarct size in patients with ST-elevation myocardial infarction: a cardiac magnetic resonance validation study. <i>EuroIntervention</i> , 2017 , 13, 935-9	3.1 43	18
125	Hyperglycemia Induces Trained Immunity in Macrophages and Their Precursors and Promotes Atherosclerosis. <i>Circulation</i> , 2021 , 144, 961-982	16.7	18
124	Index of Microcirculatory Resistance at the Time of Primary Percutaneous Coronary Intervention Predicts Early Cardiac Complications: Insights From the OxAMI (Oxford Study in Acute Myocardial Infarction) Cohort. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	17
123	Statins and vein graft failure in coronary bypass surgery. Current Opinion in Pharmacology, 2012, 12, 17	2-8.0	17
122	A pivotal role for tryptophan 447 in enzymatic coupling of human endothelial nitric oxide synthase (eNOS): effects on tetrahydrobiopterin-dependent catalysis and eNOS dimerization. <i>Journal of Biological Chemistry</i> , 2013 , 288, 29836-45	5.4	17
121	L-arginine supplementation reduces cardiac noradrenergic neurotransmission in spontaneously hypertensive rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 149-55	5.8	17

120	Membrane-bound CC chemokine inhibitor 35K provides localized inhibition of CC chemokine activity in vitro and in vivo. <i>Journal of Immunology</i> , 2006 , 177, 5567-73	5.3	17
119	Haemoglobin and flow-mediated vasodilation. <i>Clinical Science</i> , 2006 , 110, 467-73	6.5	17
118	Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2021 , 77, 2494-2513	15.1	17
117	Tracking Monocyte Recruitment and Macrophage Accumulation in Atherosclerotic Plaque Progression Using a Novel hCD68GFP/ApoE-/- Reporter Mouse-Brief Report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> 2017 , 37, 258-263	9.4	16
116	Effects of heparin on temporal microRNA profiles. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 940-1	15.1	16
115	Percutaneous coronary intervention with stent deployment in anomalously-arising left circumflex coronary arteries. <i>Catheterization and Cardiovascular Interventions</i> , 2006 , 68, 882-90	2.7	16
114	Neonatal Micro-RNA Profile Determines Endothelial Function in Offspring of Hypertensive Pregnancies. <i>Hypertension</i> , 2018 , 72, 937-945	8.5	16
113	Phospholipid membranes drive abdominal aortic aneurysm development through stimulating coagulation factor activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8038-8047	11.5	15
112	Effects of tetrahydrobiopterin oral treatment in hypoxia-induced pulmonary hypertension in rat. <i>Pulmonary Circulation</i> , 2014 , 4, 462-70	2.7	15
111	Tetrahydrobiopterin determines vascular remodeling through enhanced endothelial cell survival and regeneration. <i>Circulation</i> , 2013 , 128, S50-S58	16.7	15
110	Relation of preoperative radial artery flow-mediated dilatation to nitric oxide bioavailability in radial artery grafts used in off-pump coronary artery bypass grafting. <i>American Journal of Cardiology</i> , 2009 , 103, 216-20	3	15
109	Endotoxemia-related acute kidney injury in transgenic mice with endothelial overexpression of GTP cyclohydrolase-1. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F571-6	4.3	15
108	Regulation of mycobacterial infection by macrophage Gch1 and tetrahydrobiopterin. <i>Nature Communications</i> , 2018 , 9, 5409	17.4	15
107	Acute Microvascular Impairment Post-Reperfused STEMI Is Reversible and Has Additional Clinical Predictive Value: A CMR OxAMI Study. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1783-1793	8.4	14
106	Incremental Value of Coronary Microcirculation Resistive Reserve Ratio in Predicting the Extent of Myocardial Infarction in Patients with STEMI. Insights from the Oxford Acute Myocardial Infarction (OxAMI) Study. <i>Cardiovascular Revascularization Medicine</i> , 2019 , 20, 1148-1155	1.6	14
105	The Subcellular Localisation of Neuronal Nitric Oxide Synthase Determines the Downstream Effects of NO on Myocardial Function. <i>Cardiovascular Research</i> , 2017 , 113, 321-331	9.9	14
104	Markers of achievement for assessing and monitoring gender equity in translational research organisations: a rationale and study protocol. <i>BMJ Open</i> , 2016 , 6, e009022	3	14
103	Site-directed mutagenesis of the CC chemokine binding protein 35K-Fc reveals residues essential for activity and mutations that increase the potency of CC chemokine blockade. <i>Molecular Pharmacology</i> , 2011 , 80, 328-36	4.3	14

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102	Oxidation of Protein Kinase A Regulatory Subunit PKARI Protects Against Myocardial Ischemia-Reperfusion Injury by Inhibiting Lysosomal-Triggered Calcium Release. <i>Circulation</i> , 2021 , 143, 449-465	16.7	14
101	Effects of canagliflozin on human myocardial redox signalling: clinical implications. <i>European Heart Journal</i> , 2021 ,	9.5	14
100	Endothelial cell tetrahydrobiopterin deficiency attenuates LPS-induced vascular dysfunction and hypotension. <i>Vascular Pharmacology</i> , 2016 , 77, 69-79	5.9	13
99	OCT characteristics of saphenous vein graft atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2011 , 4, 807	-98.4	13
98	Regulation of Endrenergic control of heart rate by GTP-cyclohydrolase 1 (GCH1) and tetrahydrobiopterin. <i>Cardiovascular Research</i> , 2012 , 93, 694-701	9.9	13
97	Lines of Zahn in coronary artery thrombus. European Heart Journal, 2012, 33, 1039	9.5	13
96	Endothelial Cell Tetrahydrobiopterin Modulates Sensitivity to Ang (Angiotensin) II-Induced Vascular Remodeling, Blood Pressure, and Abdominal Aortic Aneurysm. <i>Hypertension</i> , 2018 , 72, 128-138	8.5	13
95	Isolation and culture of murine bone marrow-derived macrophages for nitric oxide and redox biology. <i>Nitric Oxide - Biology and Chemistry</i> , 2020 , 100-101, 17-29	5	11
94	Statins: pleiotropic regulators of cardiovascular redox state. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 1195-7	8.4	11
93	Coronary artery aneurysm rupture mimicking dissection of the thoracic aorta. <i>International Journal of Cardiology</i> , 1998 , 65, 115-7	3.2	11
92	Endothelium-targeted transgenic GTP-cyclohydrolase I overexpression inhibits neointima formation in mouse carotid artery. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007 , 34, 12	6₫-6	11
91	The endothelium and the pathogenesis of atherosclerosis. <i>Medicine</i> , 2006 , 34, 173-177	0.6	11
90	Manipulation of neuronal nitric oxide synthase within the paraventricular nucleus using adenovirus and antisense technology. <i>Methods in Molecular Medicine</i> , 2005 , 112, 59-79		11
89	Local delivery of a tissue factor antibody reduces early leukocyte infiltration but fails to limit intimal hyperplasia in experimental vein grafts. <i>Journal of Surgical Research</i> , 1998 , 80, 164-70	2.5	11
88	Myocardial protection by co-administration of L-arginine and tetrahydrobiopterin during ischemia and reperfusion. <i>International Journal of Cardiology</i> , 2013 , 169, 83-8	3.2	10
87	A novel workflow combining plaque imaging, plaque and plasma proteomics identifies biomarkers of human coronary atherosclerotic plaque disruption. <i>Clinical Proteomics</i> , 2017 , 14, 22	5	10
86	Artifactual elevation of plasma sCD40L by residual platelets in patients with coronary artery disease. <i>International Journal of Cardiology</i> , 2013 , 168, 1648-50	3.2	9
85	Multimodal cardiovascular magnetic resonance quantifies regional variation in vascular structure and function in patients with coronary artery disease: relationships with coronary disease severity. Journal of Cardiovascular Magnetic Resonance, 2011 , 13, 61	6.9	9

84	Dihydrofolate reductase and biopterin recycling in cardiovascular disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 749-51	5.8	9
83	Accuracy of quantitative MR vessel wall imaging applying a semi-automated gradient detection algorithma validation study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2004 , 6, 895-907	6.9	9
82	Does a biomedical research centre affect patient care in local hospitals?. <i>Health Research Policy and Systems</i> , 2017 , 15, 2	3.7	8
81	Endothelial cell tetrahydrobiopterin: going with the flow. Circulation Research, 2007, 101, 752-4	15.7	8
80	Images in cardiovascular medicine. Visualization of the ruptured plaque by magnetic resonance imaging. <i>Circulation</i> , 2003 , 108, 2542	16.7	8
79	Increased intimal hyperplasia in experimental vein graft stenting compared to arterial stenting: comparisons in a new rabbit model of stent injury. <i>Cardiovascular Research</i> , 2002 , 56, 164-72	9.9	8
78	Dynamic changes in injured myocardium, very early after acute myocardial infarction, quantified using T1 mapping cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 82	6.9	8
77	CXCR2 modulates bone marrow vascular repair and haematopoietic recovery post-transplant. <i>British Journal of Haematology</i> , 2015 , 169, 552-64	4.5	7
76	Insulin-induced vascular redox dysregulation in human atherosclerosis is ameliorated by dipeptidyl peptidase 4 inhibition. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	7
75	Vascular wall regulator of G-protein signalling-1 (RGS-1) is required for angiotensin II-mediated blood pressure control. <i>Vascular Pharmacology</i> , 2018 , 108, 15-22	5.9	7
74	Overexpression of GTP cyclohydrolase 1 feedback regulatory protein is protective in a murine model of septic shock. <i>Shock</i> , 2014 , 42, 432-9	3.4	7
73	Duration of action of antispasmodic agents: novel use of a mouse model as an in vivo pharmacological assay. <i>European Journal of Cardio-thoracic Surgery</i> , 2004 , 26, 988-94	3	7
72	A key role for the novel coronary artery disease gene JCAD in atherosclerosis via shear stress mechanotransduction. <i>Cardiovascular Research</i> , 2020 , 116, 1863-1874	9.9	7
71	Hepatic miR-144 Drives Fumarase Activity Preventing NRF2 Activation During Obesity. <i>Gastroenterology</i> , 2021 , 161, 1982-1997.e11	13.3	7
70	Effect of irradiation and bone marrow transplantation on angiotensin II-induced aortic inflammation in ApoE knockout mice. <i>Atherosclerosis</i> , 2018 , 276, 74-82	3.1	6
69	Cardiac myocyte-specific overexpression of human GTP cyclohydrolase I protects against acute cardiac allograft rejection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H88-96	5.2	6
68	Refining the Enrolment Process in Emergency Medicine Research. <i>The European Journal of Cardiovascular Medicine</i> , 2016 , 4, 506-510		6
67	Coronary Microvascular Dysfunction Assessed by Pressure Wire and CMR After STEMI Predicts Long-Term Outcomes. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 1948-1959	8.4	6

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66	combined 11-mapping and tissue tracking analysis predicts severity of ischemic injury following acute STEMI-an Oxford Acute Myocardial Infarction (OxAMI) study. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 1297-1308	2.5	6	
65	Dual quantitative coronary angiography accurately quantifies intracoronary thrombotic burden in patients with acute coronary syndrome: Comparison with optical coherence tomography imaging. <i>International Journal of Cardiology</i> , 2019 , 292, 25-31	3.2	5	
64	Episomal Nonviral Gene Therapy Vectors Slow Progression of Atherosclerosis in a Model of Familial Hypercholesterolemia. <i>Molecular Therapy - Nucleic Acids</i> , 2016 , 5, e383	10.7	5	
63	Crucial role for neuronal nitric oxide synthase in early microcirculatory derangement and recipient survival following murine pancreas transplantation. <i>PLoS ONE</i> , 2014 , 9, e112570	3.7	5	
62	Intimal dissection causing late thrombosis of a covered stent: optical coherence tomography appearances. <i>Circulation: Cardiovascular Interventions</i> , 2009 , 2, 359-60	6	5	
61	A commonly occurring polymorphism upstream of the estrogen receptor alpha alters transcription and is associated with increased HDL. <i>Atherosclerosis</i> , 2008 , 199, 354-61	3.1	5	
60	Hyper-acute cardiovascular magnetic resonance T1 mapping predicts infarct characteristics in patients with ST elevation myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 3	6.9	5	
59	When the genome bluffs: a tandem duplication event during generation of a novel Agmo knockout mouse model fools routine genotyping. <i>Cell and Bioscience</i> , 2021 , 11, 54	9.8	5	
58	External stenting and disease progression in saphenous vein grafts two years after coronary artery bypass grafting: A multicenter randomized trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	5	
57	Angiography-derived index of microcirculatory resistance (IMR) as a novel pressure-wire-free tool to assess coronary microvascular dysfunction in acute coronary syndromes and stable coronary artery disease. <i>International Journal of Cardiovascular Imaging</i> , 2021 , 37, 1801-1813	2.5	5	
56	Tetrahydrobiopterin modulates ubiquitin conjugation to UBC13/UBE2N and proteasome activity by S-nitrosation. <i>Scientific Reports</i> , 2018 , 8, 14310	4.9	5	
55	ParkinsonN disease in GTP cyclohydrolase 1 mutation carriers. <i>Brain</i> , 2015 , 138, e348	11.2	4	
54	Opportunities and challenges of implementing computed tomography fractional flow reserve into clinical practice. <i>Heart</i> , 2020 , 106, 1387-1393	5.1	4	
53	Effects Of Endothelin-1 On Intracellular Tetrahydrobiopterin Levels In Vascular Tissue. <i>Scandinavian Cardiovascular Journal</i> , 2018 , 52, 163-169	2	4	
52	Hydrodynamic Gene Delivery of CC Chemokine Binding Fc Fusion Proteins to Target Acute Vascular Inflammation In Vivo. <i>Scientific Reports</i> , 2015 , 5, 17404	4.9	4	
51	Contrasting in vitro vs. in vivo effects of a cell membrane-specific CC-chemokine binding protein on macrophage chemotaxis. <i>Journal of Molecular Medicine</i> , 2014 , 92, 1169-78	5.5	4	
50	Rapid neutrophil mobilisation by VCAM-1+ endothelial extracellular vesicles <i>Cardiovascular Research</i> , 2022 ,	9.9	4	
49	BH4 Increases nNOS Activity and Preserves Left Ventricular Function in Diabetes. <i>Circulation Research</i> , 2021 , 128, 585-601	15.7	4	

48	Mast cell tetrahydrobiopterin contributes to itch in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 985-1000	5.6	4
47	Standardized measurement of coronary inflammation using cardiovascular computed tomography: integration in clinical care as a prognostic medical device. <i>Cardiovascular Research</i> , 2021 , 117, 2677-269	09.9	4
46	Tetrahydrobiopterin and Nitric Oxide Synthase Recouplers. <i>Handbook of Experimental Pharmacology</i> , 2021 , 264, 339-352	3.2	3
45	The influence of coronary plaque morphology assessed by optical coherence tomography on final microvascular function after stenting in patients with ST-elevation myocardial infarction. <i>Coronary Artery Disease</i> , 2017 , 28, 198-208	1.4	3
44	Letter by Antoniades et al regarding article, "Uncoupled cardiac nitric oxide synthase mediates diastolic dysfunction". <i>Circulation</i> , 2010 , 122, e558; author reply e559	16.7	3
43	Coronary artery disease genetics: bigger is better. European Heart Journal, 2004, 25, 900-1	9.5	3
42	The Endothelium and the Pathogenesis of Atherosclerosis. <i>Medicine</i> , 2002 , 30, 54-58	0.6	3
41	Chemokines, Chemokine Receptors and Atherosclerosis. <i>Current Topics in Membranes</i> , 2005 , 223-253	2.2	3
40	A simplified approach to temporary DDD pacing using a single lead, balloon-tipped catheter with overlapping biphasic impulse stimulation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2001 , 24, 939-44	1.6	3
39	CD200 Limits Monopoiesis and Monocyte Recruitment in Atherosclerosis. <i>Circulation Research</i> , 2021 , 129, 280-295	15.7	3
38	A Genomic DNA Reporter Screen Identifies Squalene Synthase Inhibitors That Act Cooperatively with Statins to Upregulate the Low-Density Lipoprotein Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017 , 361, 417-428	4.7	2
37	A macroeconomic assessment of the impact of medical research expenditure: A case study of NIHR Biomedical Research Centres. <i>PLoS ONE</i> , 2019 , 14, e0214361	3.7	2
36	71 Percutaneous Coronary Intervention (PCI) Risk Scores Predicting Inpatient Mortality and Major Adverse Cardiac Events (MACE) are Poorly Concordant in High Risk Patients. <i>Heart</i> , 2014 , 100, A41.2-A4	2 ^{5.1}	2
35	Treatment of recurrent vein graft "stent-in-stent" re-stenosis guided by optical coherence tomography. <i>International Journal of Cardiology</i> , 2012 , 156, e20-1	3.2	2
34	Images in cardiovascular medicine. Optical coherence tomography in the setting of an acute anterior myocardial infarction. <i>Circulation</i> , 2007 , 116, e366-7	16.7	2
33	Models for studying coronary artery stenting. <i>Drug Discovery Today: Disease Models</i> , 2006 , 3, 297-303	1.3	2
32	Thymosin A protects against aortic aneurysm via endocytic regulation of growth factor signaling. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	2
31	Safety of Rotational Atherectomy Using the Radial Access in Patients With Severe Aortic Stenosis. <i>American Journal of Cardiology</i> , 2019 , 124, 381-388	3	1

30	The Impact of Blood Pressure Variability on Coronary Arterial Lumen Dimensions as Assessed by Optical Coherence Tomography in Patients with ST-Elevation Myocardial Infarction. <i>Cardiovascular Revascularization Medicine</i> , 2019 , 20, 768-774	1.6	1
29	Reflectance spectral analysis for novel characterization and clinical assessment of aspirated coronary thrombi in patients with ST elevation myocardial infarction. <i>Physiological Measurement</i> , 2020 , 41, 045001	2.9	1
28	Heparin administration leads to rapid decrease in plasma matrix metalloproteinase-9. <i>International Journal of Cardiology</i> , 2013 , 163, 212-3	3.2	1
27	Cord and Cord Blood-derived Endothelial Cells 2015 , 49-61		1
26	Radial artery graft string sign due to lumen obliteration by neointima: insight from optical coherence tomography. <i>JACC: Cardiovascular Interventions</i> , 2011 , 4, 586-7	5	1
25	Antithrombotic strategies in gene therapy. Current Cardiology Reports, 2000, 2, 34-8	4.2	1
24	Collagen subtypes III and IV expression in human vein graft atherosclerosis. <i>American Journal of Cardiology</i> , 1996 , 78, 691-4	3	1
23	Abstract 16467: A Novel CT-derived Radiotranscriptomic Signature of Perivascular Adipose Tissue Stratifies COVID-19 Vascular Cytokine Burst and Predicts in Hospital Outcomes. <i>Circulation</i> , 2020 , 142,	16.7	1
22	Chemokines and Atherosclerosis: A Critical Assessment of Therapeutic Targets21-42		1
21	Atrial nitroso-redox balance and refractoriness following on-pump cardiac surgery: A randomised trial of atorvastatin. <i>Cardiovascular Research</i> , 2020 ,	9.9	1
20	Long-Term Clinical Outcomes in Patients With an Acute ST-Segment-Elevation Myocardial Infarction Stratified by Angiography-Derived Index of Microcirculatory Resistance. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 717114	5.4	1
19	A large National Institute for Health Research (NIHR) Biomedical Research Centre facilitates impactful cross-disciplinary and collaborative translational research publications and research collaboration Translational Medicine, 2021 , 19, 483	8.5	O
18	A Randomized, double-blind, dose ranging clinical trial of intravenous FDY-5301 in acute STEMI patients undergoing primary PCI. <i>International Journal of Cardiology</i> , 2022 , 347, 1-7	3.2	0
17	Endothelial GTPCH (GTP Cyclohydrolase 1) and Tetrahydrobiopterin Regulate Gestational Blood Pressure, Uteroplacental Remodeling, and Fetal Growth. <i>Hypertension</i> , 2021 , 78, 1871-1884	8.5	O
16	Pressure-bounded coronary flow reserve to assess the extent of microvascular dysfunction in patients with ST-elevation acute myocardial infarction. <i>EuroIntervention</i> , 2021 , 16, 1434-1443	3.1	О
15	Pre-procedural ATI score (age-thrombus burden-index of microcirculatory resistance) predicts long-term clinical outcomes in patients with ST elevation myocardial infarction treated with primary percutaneous coronary intervention. <i>International Journal of Cardiology</i> , 2021 , 339, 1-6	3.2	O
14	022 Novel perfusion CMR reference standard for the objective diagnosis of microcirculatory dysfunction Ivalidation against prognostic invasive markers of coronary physiology. <i>Heart</i> , 2017 , 103, A18-A18	5.1	
13	A Endothelium-derived extracellular vesicles promote splenic monocyte mobilisation in myocardial infarction. <i>Heart</i> , 2017 , 103, A150.1-A150	5.1	

12	Nitric oxide and vascular disease. <i>Surgery</i> , 2007 , 25, 145-149	0.3
11	NFull-houseN heumatic heart disease. <i>International Journal of Cardiology</i> , 2007 , 116, e55-6	3.2
10	Endothelial-specific GTP cyclohydrolase overexpression reduces blood pressure in salt-sensitive hypertension. <i>FASEB Journal</i> , 2006 , 20, A719	0.9
9	The % Tetrahydrobiopterin (BH4) and Serine 1177 Phosphorylation Is Reduced in Sickle Transgenic Mice <i>Blood</i> , 2007 , 110, 3398-3398	2.2
8	L-arginine Supplementation Reduces Local Cardiac Noradrenergic Neurotransmission in Spontaneously Hypertensive Rats. <i>FASEB Journal</i> , 2008 , 22, 953.5	0.9
7	Endothelial-specific BH4 expression accelerates refractory wound healing by enhancing eNOS activity and suppressing oxidative stress in type 1 diabetes. <i>FASEB Journal</i> , 2008 , 22, 1226.8	0.9
6	BH4 protects endothelial progenitor cell number and function via suppressing thrombospondin-1 expression in salt-sensitive hypertension. <i>FASEB Journal</i> , 2008 , 22, 964.8	0.9
5	huGTPCH Expressing S+S-Antilles Mice Have Reduced Gardos Channel Activity, Endothelin-1 Expression, and Endothelin Receptor A and B Expression, While Total Biopterin and Percent Tetrahydrobiopterin Are Increased. <i>Blood</i> , 2008 , 112, 537-537	2.2
4	Circulatory Estradiol Influences Gastric Emptying, Nitrergic Relaxation via Tetrahydrobiopterin (BH4, a cofactor nNOS dimerization) in a female Mouse, Model of Chronic Hypoestrogenemia. <i>FASEB Journal</i> , 2012 , 26, 1163.4	0.9
3	A titan of Cardiovascular Research: Professor Peter Sleight (1929-2020). <i>Cardiovascular Research</i> , 2021 , 117, e64-e66	9.9
2	Timing of cardiovascular magnetic resonance in clinical trials evaluating cardioprotective therapies to reduce infarct size. <i>International Journal of Cardiology</i> , 2021 , 323, 272-274	3.2
1	Uncoupling of Endothelial Nitric Oxide Synthase in Atherosclerosis275-299	