

Ajay M Shah

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

384
papers

25,701
citations

91
h-index

148
g-index

430
ext. papers

29,771
ext. citations

8.8
avg, IF

6.96
L-index

#	Paper	IF	Citations
384	Plasma microRNA profiling reveals loss of endothelial miR-126 and other microRNAs in type 2 diabetes. <i>Circulation Research</i> , 2010 , 107, 810-7	15.7	1086
383	Endothelial cell superoxide generation: regulation and relevance for cardiovascular pathophysiology. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R1014-30	3.2	552
382	NADPH oxidases in cardiovascular health and disease. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 691-728	4	499
381	Increased myocardial NADPH oxidase activity in human heart failure. <i>Journal of the American College of Cardiology</i> , 2003 , 41, 2164-71	15.1	472
380	Pivotal role of a gp91(phox)-containing NADPH oxidase in angiotensin II-induced cardiac hypertrophy in mice. <i>Circulation</i> , 2002 , 105, 293-6	16.7	462
379	The oxygen-rich postnatal environment induces cardiomyocyte cell-cycle arrest through DNA damage response. <i>Cell</i> , 2014 , 157, 565-79	56.2	461
378	Nox4 is a protective reactive oxygen species generating vascular NADPH oxidase. <i>Circulation Research</i> , 2012 , 110, 1217-25	15.7	452
377	Activation of NADPH oxidase during progression of cardiac hypertrophy to failure. <i>Hypertension</i> , 2002 , 40, 477-84	8.5	416
376	Hypoxia induces heart regeneration in adult mice. <i>Nature</i> , 2017 , 541, 222-227	50.4	378
375	The E-loop is involved in hydrogen peroxide formation by the NADPH oxidase Nox4. <i>Journal of Biological Chemistry</i> , 2011 , 286, 13304-13	5.4	371
374	Prospective study on circulating MicroRNAs and risk of myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 290-9	15.1	357
373	Contrasting roles of NADPH oxidase isoforms in pressure-overload versus angiotensin II-induced cardiac hypertrophy. <i>Circulation Research</i> , 2003 , 93, 802-5	15.7	355
372	NADPH oxidase-4 mediates protection against chronic load-induced stress in mouse hearts by enhancing angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18121-6	11.5	347
371	Oxidative stress and redox signalling in cardiac hypertrophy and heart failure. <i>Heart</i> , 2007 , 93, 903-7	5.1	340
370	Post-stroke inhibition of induced NADPH oxidase type 4 prevents oxidative stress and neurodegeneration. <i>PLoS Biology</i> , 2010 , 8, e1000479	9.7	324
369	Redox signaling in cardiac physiology and pathology. <i>Circulation Research</i> , 2012 , 111, 1091-106	15.7	321
368	Intracellular localization and preassembly of the NADPH oxidase complex in cultured endothelial cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 19952-60	5.4	303

367	Cardiovascular side effects of cancer therapies: a position statement from the Heart Failure Association of the European Society of Cardiology. <i>European Journal of Heart Failure</i> , 2011 , 13, 1-10	12.3	295
366	Regulation of cardiac contractile function by troponin I phosphorylation. <i>Cardiovascular Research</i> , 2005 , 66, 12-21	9.9	276
365	Essential role of the NADPH oxidase subunit p47(phox) in endothelial cell superoxide production in response to phorbol ester and tumor necrosis factor-alpha. <i>Circulation Research</i> , 2002 , 90, 143-50	15.7	275
364	NADPH oxidase-dependent redox signalling in cardiac hypertrophy, remodelling and failure. <i>Cardiovascular Research</i> , 2006 , 71, 208-15	9.9	261
363	Bcl-2-like protein 13 is a mammalian Atg32 homologue that mediates mitophagy and mitochondrial fragmentation. <i>Nature Communications</i> , 2015 , 6, 7527	17.4	256
362	Inflammation as a therapeutic target in heart failure? A scientific statement from the Translational Research Committee of the Heart Failure Association of the European Society of Cardiology. <i>European Journal of Heart Failure</i> , 2009 , 11, 119-29	12.3	248
361	Aldosterone mediates angiotensin II-induced interstitial cardiac fibrosis via a Nox2-containing NADPH oxidase. <i>FASEB Journal</i> , 2006 , 20, 1546-8	0.9	248
360	Endothelial Nox4 NADPH oxidase enhances vasodilatation and reduces blood pressure in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1368-76	9.4	234
359	Redox signaling in cardiac myocytes. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 777-93	7.8	233
358	Mechanism of endothelial cell NADPH oxidase activation by angiotensin II. Role of the p47phox subunit. <i>Journal of Biological Chemistry</i> , 2003 , 278, 12094-100	5.4	230
357	ROS generation by nonphagocytic NADPH oxidase: potential relevance in diabetic nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2003 , 14, S221-6	12.7	226
356	In search of new therapeutic targets and strategies for heart failure: recent advances in basic science. <i>Lancet, The</i> , 2011 , 378, 704-12	40	220
355	Increased neuronal nitric oxide synthase-derived NO production in the failing human heart. <i>Lancet, The</i> , 2004 , 363, 1365-7	40	216
354	Molecular characterization and localization of the NAD(P)H oxidase components gp91-phox and p22-phox in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 1903-11	9.4	205
353	NADPH oxidase and endothelial cell function. <i>Clinical Science</i> , 2005 , 109, 217-26	6.5	196
352	Involvement of Nox2 NADPH oxidase in adverse cardiac remodeling after myocardial infarction. <i>Hypertension</i> , 2008 , 51, 319-25	8.5	189
351	IGF-binding protein-2 protects against the development of obesity and insulin resistance. <i>Diabetes</i> , 2007 , 56, 285-94	0.9	187
350	Magnetic Resonance Perfusion or Fractional Flow Reserve in Coronary Disease. <i>New England Journal of Medicine</i> , 2019 , 380, 2418-2428	59.2	184

349	Acute tumor necrosis factor alpha signaling via NADPH oxidase in microvascular endothelial cells: role of p47phox phosphorylation and binding to TRAF4. <i>Molecular and Cellular Biology</i> , 2005 , 25, 2320-30	4.8	177
348	Role of cyclic GMP-dependent protein kinase in the contractile response to exogenous nitric oxide in rat cardiac myocytes. <i>Journal of Physiology</i> , 2002 , 540, 457-67	3.9	175
347	Nox4 and nox2 NADPH oxidases mediate distinct cellular redox signaling responses to agonist stimulation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1347-54	9.4	166
346	Cardiomyocytes as effectors of nitric oxide signalling. <i>Cardiovascular Research</i> , 2007 , 75, 315-26	9.9	162
345	Nox2 NADPH oxidase promotes pathologic cardiac remodeling associated with Doxorubicin chemotherapy. <i>Cancer Research</i> , 2010 , 70, 9287-97	10.1	160
344	Predicting death due to progressive heart failure in patients with mild-to-moderate chronic heart failure. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 1801-8	15.1	157
343	Proteomics analysis of cardiac extracellular matrix remodeling in a porcine model of ischemia/reperfusion injury. <i>Circulation</i> , 2012 , 125, 789-802	16.7	156
342	Glycated proteins stimulate reactive oxygen species production in cardiac myocytes: involvement of Nox2 (gp91phox)-containing NADPH oxidase. <i>Circulation</i> , 2006 , 113, 1235-43	16.7	147
341	Extracellular matrix secretion by cardiac fibroblasts: role of microRNA-29b and microRNA-30c. <i>Circulation Research</i> , 2013 , 113, 1138-47	15.7	141
340	NADPH oxidase-derived overproduction of reactive oxygen species impairs postischemic neovascularization in mice with type 1 diabetes. <i>American Journal of Pathology</i> , 2006 , 169, 719-28	5.8	141
339	NADPH oxidases in heart failure: poachers or gamekeepers?. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 1024-41	8.4	140
338	Activation of TRPC6 channels is essential for lung ischaemia-reperfusion induced oedema in mice. <i>Nature Communications</i> , 2012 , 3, 649	17.4	137
337	Reactive oxygen species regulate axonal regeneration through the release of exosomal NADPH oxidase 2 complexes into injured axons. <i>Nature Cell Biology</i> , 2018 , 20, 307-319	23.4	132
336	Oxidative stress and endothelial dysfunction in aortas of aged spontaneously hypertensive rats by NOX1/2 is reversed by NADPH oxidase inhibition. <i>Hypertension</i> , 2010 , 56, 490-7	8.5	132
335	Effect of endothelium-specific insulin resistance on endothelial function in vivo. <i>Diabetes</i> , 2008 , 57, 3307-14	7.14	131
334	NADPH oxidases in cardiovascular disease: insights from in vivo models and clinical studies. <i>Basic Research in Cardiology</i> , 2011 , 106, 735-47	11.8	129
333	Angiotensin-converting enzyme inhibitors and angiotensin II receptor blockers are not associated with severe COVID-19 infection in a multi-site UK acute hospital trust. <i>European Journal of Heart Failure</i> , 2020 , 22, 967-974	12.3	127
332	Metabolically Activated Adipose Tissue Macrophages Perform Detrimental and Beneficial Functions during Diet-Induced Obesity. <i>Cell Reports</i> , 2017 , 20, 3149-3161	10.6	126

331	Paracrine coronary endothelial control of left ventricular function in humans. <i>Circulation</i> , 1995 , 92, 2119-267	12.7	124
330	Nox4 regulates Nrf2 and glutathione redox in cardiomyocytes in vivo. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 205-15	7.8	121
329	Endothelial NADPH oxidase-2 promotes interstitial cardiac fibrosis and diastolic dysfunction through proinflammatory effects and endothelial-mesenchymal transition. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2734-41	15.1	120
328	Involvement of the nicotinamide adenosine dinucleotide phosphate oxidase isoform Nox2 in cardiac contractile dysfunction occurring in response to pressure overload. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 817-26	15.1	120
327	Evidence for altered interleukin 18 (IL)-18 pathway in human heart failure. <i>FASEB Journal</i> , 2004 , 18, 1752-4	11.9	120
326	Involvement of NADPH oxidase in age-associated cardiac remodeling. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 765-72	5.8	119
325	Role of Nox4 in murine models of kidney disease. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 842-53	7.8	118
324	Role of endothelial Nox2 NADPH oxidase in angiotensin II-induced hypertension and vasomotor dysfunction. <i>Basic Research in Cardiology</i> , 2011 , 106, 527-38	11.8	118
323	Inducible nitric oxide synthase has divergent effects on vascular and metabolic function in obesity. <i>Diabetes</i> , 2005 , 54, 1082-9	0.9	117
322	Cardiac contractile impairment associated with increased phosphorylation of troponin I in endotoxemic rats. <i>FASEB Journal</i> , 2001 , 15, 294-6	0.9	117
321	Magnetic Drug Targeting: Preclinical in Vivo Studies, Mathematical Modeling, and Extrapolation to Humans. <i>Nano Letters</i> , 2016 , 16, 5652-60	11.5	116
320	Novel aspects of ROS signalling in heart failure. <i>Basic Research in Cardiology</i> , 2013 , 108, 359	11.8	116
319	A clinical risk score to identify patients with COVID-19 at high risk of critical care admission or death: An observational cohort study. <i>Journal of Infection</i> , 2020 , 81, 282-288	18.9	115
318	The NADPH oxidase Nox4 has anti-atherosclerotic functions. <i>European Heart Journal</i> , 2015 , 36, 3447-56	9.5	112
317	Remote intermittent ischemia before coronary artery bypass graft surgery: a strategy to reduce injury and inflammation?. <i>Basic Research in Cardiology</i> , 2011 , 106, 511-9	11.8	111
316	NADPH oxidase signaling and cardiac myocyte function. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 15-22	5.8	111
315	Vascular dysfunction and reduced circulating endothelial progenitor cells in young healthy UK South Asian men. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 936-42	9.4	111
314	Impaired endothelial regulation of ventricular relaxation in cardiac hypertrophy: role of reactive oxygen species and NADPH oxidase. <i>Circulation</i> , 2001 , 104, 2967-74	16.7	109

313	The continuous heart failure spectrum: moving beyond an ejection fraction classification. <i>European Heart Journal</i> , 2019 , 40, 2155-2163	9.5	107
312	Levosimendan restores both systolic and diastolic cardiac performance in lipopolysaccharide-treated rabbits: comparison with dobutamine and milrinone. <i>Critical Care Medicine</i> , 2007 , 35, 1376-82	1.4	106
311	Basal release of nitric oxide augments the Frank-Starling response in the isolated heart. <i>Circulation</i> , 1997 , 96, 1320-9	16.7	106
310	Glycogen synthase kinase-3 inactivation is not required for ischemic preconditioning or postconditioning in the mouse. <i>Circulation Research</i> , 2008 , 103, 307-14	15.7	103
309	Drugs that inhibit TMEM16 proteins block SARS-CoV-2 spike-induced syncytia. <i>Nature</i> , 2021 , 594, 88-93	50.4	103
308	Nox2 NADPH oxidase has a critical role in insulin resistance-related endothelial cell dysfunction. <i>Diabetes</i> , 2013 , 62, 2130-4	0.9	100
307	Noninvasive magnetic resonance imaging evaluation of endothelial permeability in murine atherosclerosis using an albumin-binding contrast agent. <i>Circulation</i> , 2012 , 126, 707-19	16.7	100
306	Neuronal nitric oxide synthase and human vascular regulation. <i>Trends in Cardiovascular Medicine</i> , 2009 , 19, 256-62	6.9	100
305	Hepatocyte Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 4 Regulates Stress Signaling, Fibrosis, and Insulin Sensitivity During Development of Steatohepatitis in Mice. <i>Gastroenterology</i> , 2015 , 149, 468-80.e10	13.3	98
304	NADPH oxidases and cardiac remodelling. <i>Heart Failure Reviews</i> , 2011 , 16, 5-12	5	98
303	Effects of neuronal nitric oxide synthase on human coronary artery diameter and blood flow in vivo. <i>Circulation</i> , 2009 , 119, 2656-62	16.7	98
302	Contrasting inotropic effects of endogenous endothelin in the normal and failing human heart: studies with an intracoronary ET(A) receptor antagonist. <i>Circulation</i> , 2000 , 101, 142-7	16.7	97
301	Peroxisome proliferator-activated receptor alpha induces NADPH oxidase activity in macrophages, leading to the generation of LDL with PPAR-alpha activation properties. <i>Circulation Research</i> , 2004 , 95, 1174-82	15.7	96
300	Opposing roles of p47phox in basal versus angiotensin II-stimulated alterations in vascular O ₂ -production, vascular tone, and mitogen-activated protein kinase activation. <i>Circulation</i> , 2004 , 109, 1307-13	16.7	96
299	Changing characteristics and mode of death associated with chronic heart failure caused by left ventricular systolic dysfunction: a study across therapeutic eras. <i>Circulation: Heart Failure</i> , 2011 , 4, 396-403	7.6	95
298	Neuronal nitric oxide synthase regulates basal microvascular tone in humans in vivo. <i>Circulation</i> , 2008 , 117, 1991-6	16.7	94
297	Oxidative stress in heart failure. More than just damage. <i>European Heart Journal</i> , 2003 , 24, 2161-3	9.5	94
296	Endoplasmic reticulum stress and Nox-mediated reactive oxygen species signaling in the peripheral vasculature: potential role in hypertension. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 121-34	8.4	93

295	Mutual Regulation of Epicardial Adipose Tissue and Myocardial Redox State by PPAR- γ /Adiponectin Signalling. <i>Circulation Research</i> , 2016 , 118, 842-55	15.7	92
294	Endothelial function and weight loss in obese humans. <i>Obesity Surgery</i> , 2005 , 15, 1055-60	3.7	92
293	Cardiac monocytes and macrophages after myocardial infarction. <i>Cardiovascular Research</i> , 2020 , 116, 1101-1112	9.9	91
292	Reactive oxygen species and endothelial activation. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 1089-1003	3.4	90
291	The impact of COVID-19 on heart failure hospitalization and management: report from a Heart Failure Unit in London during the peak of the pandemic. <i>European Journal of Heart Failure</i> , 2020 , 22, 978-984	12.3	84
290	Leptin is an endothelial-independent vasodilator in humans with coronary artery disease: Evidence for tissue specificity of leptin resistance. <i>European Heart Journal</i> , 2006 , 27, 2294-9	9.5	84
289	Vitamin D promotes vascular regeneration. <i>Circulation</i> , 2014 , 130, 976-86	16.7	82
288	Control of hepatic nuclear superoxide production by glucose 6-phosphate dehydrogenase and NADPH oxidase-4. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8977-87	5.4	82
287	NADPH oxidase-derived reactive oxygen species in cardiac pathophysiology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005 , 360, 2327-34	5.8	81
286	Redox regulation of cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 73, 103-11	5.8	80
285	Effects of nitric oxide synthase inhibition on Basal function and the force-frequency relationship in the normal and failing human heart in vivo. <i>Circulation</i> , 2001 , 104, 2318-23	16.7	80
284	Role of oxidative stress in cardiac remodelling after myocardial infarction. <i>Heart Lung and Circulation</i> , 2004 , 13, 132-8	1.8	78
283	NADPH oxidase-4 maintains neuropathic pain after peripheral nerve injury. <i>Journal of Neuroscience</i> , 2012 , 32, 10136-45	6.6	77
282	An ongoing role of Calcitonin gene-related peptide as part of a protective network against hypertension, vascular hypertrophy, and oxidative stress. <i>Hypertension</i> , 2014 , 63, 1056-62	8.5	76
281	Drug treatment effects on outcomes in heart failure with preserved ejection fraction: a systematic review and meta-analysis. <i>Heart</i> , 2018 , 104, 407-415	5.1	75
280	Pivotal role of NOX-2-containing NADPH oxidase in early ischemic preconditioning. <i>FASEB Journal</i> , 2005 , 19, 2037-9	0.9	74
279	Protection against endotoxemia-induced contractile dysfunction in mice with cardiac-specific expression of slow skeletal troponin I. <i>FASEB Journal</i> , 2005 , 19, 1137-9	0.9	73
278	High-frequency speckle tracking echocardiography in the assessment of left ventricular function and remodeling after murine myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1371-83	5.2	72

277	Involvement of NADPH oxidases in cardiac remodelling and heart failure. <i>American Journal of Nephrology</i> , 2007 , 27, 649-60	4.6	72
276	Targeted redox inhibition of protein phosphatase 1 by Nox4 regulates eIF2 β -mediated stress signaling. <i>EMBO Journal</i> , 2016 , 35, 319-34	13	72
275	Single-cell transcriptome analyses reveal novel targets modulating cardiac neovascularization by resident endothelial cells following myocardial infarction. <i>European Heart Journal</i> , 2019 , 40, 2507-2520	9.5	71
274	Acute heart failure. <i>Nature Reviews Disease Primers</i> , 2020 , 6, 16	51.1	70
273	Inotropic effects of endothelin in ferret ventricular myocardium. <i>European Journal of Pharmacology</i> , 1989 , 163, 365-7	5.3	66
272	Design and rationale of the MR-INFORM study: stress perfusion cardiovascular magnetic resonance imaging to guide the management of patients with stable coronary artery disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 65	6.9	65
271	Increasing circulating IGFBP1 levels improves insulin sensitivity, promotes nitric oxide production, lowers blood pressure, and protects against atherosclerosis. <i>Diabetes</i> , 2012 , 61, 915-24	0.9	64
270	A Novel β -Calcitonin Gene-Related Peptide Analogue Protects Against End-Organ Damage in Experimental Hypertension, Cardiac Hypertrophy, and Heart Failure. <i>Circulation</i> , 2017 , 136, 367-383	16.7	63
269	Contractile Function During Angiotensin-III Activation: Increased Nox2 Activity Modulates Cardiac Calcium Handling via Phospholamban Phosphorylation. <i>Journal of the American College of Cardiology</i> , 2015 , 66, 261-272	15.1	63
268	Heart failure: mitochondrial dysfunction and oxidative stress in CHF. <i>Nature Reviews Cardiology</i> , 2015 , 12, 6-8	14.8	63
267	Smooth muscle cells differentiated from reprogrammed embryonic lung fibroblasts through DKK3 signaling are potent for tissue engineering of vascular grafts. <i>Circulation Research</i> , 2013 , 112, 1433-43	15.7	63
266	Magnetically Decorated Multi-Walled Carbon Nanotubes as Dual MRI and SPECT Contrast Agents. <i>Advanced Functional Materials</i> , 2014 , 24, 1880-1894	15.6	62
265	ROS signalling between endothelial cells and cardiac cells. <i>Cardiovascular Research</i> , 2014 , 102, 249-57	9.9	62
264	A 28-kDa splice variant of NADPH oxidase-4 is nuclear-localized and involved in redox signaling in vascular cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, e104-12	9.4	62
263	Cardiomyocyte overexpression of neuronal nitric oxide synthase delays transition toward heart failure in response to pressure overload by preserving calcium cycling. <i>Circulation</i> , 2008 , 117, 3187-98	16.7	62
262	Accelerated endothelial dysfunction in mild prediabetic insulin resistance: the early role of reactive oxygen species. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 293, E1311-9	6	62
261	Asymmetric dimethylarginine and reduced nitric oxide bioavailability in young Black African men. <i>Hypertension</i> , 2007 , 49, 873-7	8.5	59
260	Redox sensitive signaling pathways in cardiac remodeling, hypertrophy and failure. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 3168-87	2.8	58

259	Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 1275-1287	35.1	58
258	Effect of Iron Isomaltoside on Skeletal Muscle Energetics in Patients With Chronic Heart Failure and Iron Deficiency. <i>Circulation</i> , 2019 , 139, 2386-2398	16.7	58
257	Positive regulation of the NADPH oxidase NOX4 promoter in vascular smooth muscle cells by E2F. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 679-85	7.8	57
256	Molecular imaging of cardiac remodelling after myocardial infarction. <i>Basic Research in Cardiology</i> , 2018 , 113, 10	11.8	55
255	Echocardiographic evaluation of diastolic function in mouse models of heart disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 114, 20-28	5.8	55
254	Preserved glucoregulation but attenuation of the vascular actions of insulin in mice heterozygous for knockout of the insulin receptor. <i>Diabetes</i> , 2004 , 53, 2645-52	0.9	55
253	NADPH oxidase and heart failure. <i>Current Opinion in Pharmacology</i> , 2006 , 6, 148-53	5.1	54
252	Augmentation pressure is influenced by ventricular contractility/relaxation dynamics: novel mechanism of reduction of pulse pressure by nitrates. <i>Hypertension</i> , 2014 , 63, 1050-5	8.5	53
251	Age-associated pro-inflammatory remodeling and functional phenotype in the heart and large arteries. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 83, 101-11	5.8	53
250	Cardioprotective Effect of the Mitochondrial Unfolded Protein Response During Chronic Pressure Overload. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 1795-1806	15.1	52
249	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. <i>Circulation</i> , 2020 , 141, 1249-1265	16.7	52
248	A reactive oxygen species-mediated component in neurogenic vasodilatation. <i>Cardiovascular Research</i> , 2008 , 78, 139-47	9.9	52
247	Nicotinamide adenine dinucleotide phosphate oxidase-4-dependent upregulation of nuclear factor erythroid-derived 2-like 2 protects the heart during chronic pressure overload. <i>Hypertension</i> , 2015 , 65, 547-53	8.5	49
246	Essential role of troponin I in the positive inotropic response to isoprenaline in mouse hearts contracting auxotonically. <i>Journal of Physiology</i> , 2004 , 556, 835-47	3.9	49
245	Phenotypic properties and characteristics of superoxide production by mouse coronary microvascular endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 1119-31	5.8	49
244	A prognostic index to predict long-term mortality in patients with mild to moderate chronic heart failure stabilised on angiotensin converting enzyme inhibitors. <i>European Journal of Heart Failure</i> , 2003 , 5, 489-97	12.3	48
243	Impaired endothelium-dependent regulation of ventricular relaxation in pressure-overload cardiac hypertrophy. <i>Circulation</i> , 2000 , 101, 1854-60	16.7	47
242	The physiological role of endogenous endothelin in the regulation of human coronary vasomotor tone. <i>Journal of the American College of Cardiology</i> , 2001 , 37, 137-43	15.1	47

241	Temporal trends in decompensated heart failure and outcomes during COVID-19: a multisite report from heart failure referral centres in London. <i>European Journal of Heart Failure</i> , 2020 , 22, 2219-2224	12.3	46
240	Late gadolinium enhancement of acute myocardial infarction in mice at 7T: cine-FLASH versus inversion recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 878-86	5.6	45
239	Activation of p38 mitogen-activated protein kinase contributes to the early cardiodepressant action of tumor necrosis factor. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 545-55	15.1	44
238	Protein disulfide isomerase and host-pathogen interaction. <i>Scientific World Journal, The</i> , 2011 , 11, 1749-61	6.1	43
237	Ethnic differences in arterial responses and inflammatory markers in Afro-Caribbean and Caucasian subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 2362-7	9.4	43
236	Triple-Modal Imaging of Magnetically-Targeted Nanocapsules in Solid Tumours In Vivo. <i>Theranostics</i> , 2016 , 6, 342-56	12.1	43
235	Metabolically activated adipose tissue macrophages link obesity to triple-negative breast cancer. <i>Journal of Experimental Medicine</i> , 2019 , 216, 1345-1358	16.6	42
234	Cardiac dysfunction in the Goto-Kakizaki rat. A model of type II diabetes mellitus. <i>Basic Research in Cardiology</i> , 2004 , 99, 133-41	11.8	42
233	ACE-inhibitors and Angiotensin-2 Receptor Blockers are not associated with severe SARS-COVID19 infection in a multi-site UK acute Hospital Trust		42
232	The Endoplasmic Reticulum Chaperone Calnexin Is a NADPH Oxidase NOX4 Interacting Protein. <i>Journal of Biological Chemistry</i> , 2016 , 291, 7045-59	5.4	42
231	NADPH oxidase 4 regulates cardiomyocyte differentiation via redox activation of c-Jun protein and the cis-regulation of GATA-4 gene transcription. <i>Journal of Biological Chemistry</i> , 2013 , 288, 15745-59	5.4	41
230	NADPH oxidase 2 mediates angiotensin II-dependent cellular arrhythmias via PKA and CaMKII. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 75, 206-15	5.8	41
229	GATA factors lie upstream of Nkx 2.5 in the transcriptional regulatory cascade that effects cardiogenesis. <i>Stem Cells and Development</i> , 2005 , 14, 425-39	4.4	41
228	Selective dysregulation of nitric oxide synthase type 3 in cardiac myocytes but not coronary microvascular endothelial cells of spontaneously hypertensive rat. <i>Cardiovascular Research</i> , 1998 , 38, 719-26	9.9	41
227	SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care. <i>Nature Communications</i> , 2021 , 12, 3406	17.4	41
226	Modulation of myocardial contraction by endocardial and coronary vascular endothelium. <i>Trends in Cardiovascular Medicine</i> , 1993 , 3, 98-103	6.9	40
225	Heart rate turbulence and death due to cardiac decompensation in patients with chronic heart failure. <i>European Journal of Heart Failure</i> , 2006 , 8, 585-90	12.3	39
224	A simple thermodilution technique to assess coronary endothelium-dependent microvascular function in humans: validation and comparison with coronary flow reserve. <i>European Heart Journal</i> , 2007 , 28, 2188-94	9.5	39

223	The influence of endothelium-derived nitric oxide on myocardial contractile function. <i>International Journal of Cardiology</i> , 1995 , 50, 225-31	3.2	39
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