

Malte Kelm

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.

573
papers

21,548
citations

71
h-index

131
g-index

624
ext. papers

24,575
ext. citations

5.3
avg, IF

6.6
L-index

#	Paper	IF	Citations
573	(-)-Epicatechin mediates beneficial effects of flavanol-rich cocoa on vascular function in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1024-9	11.5	813
572	Guidelines for pre-operative cardiac risk assessment and perioperative cardiac management in non-cardiac surgery. <i>European Heart Journal</i> , 2009 , 30, 2769-812	9.5	545
571	Impaired progenitor cell activity in age-related endothelial dysfunction. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 1441-8	15.1	472
570	Plasma nitrite reflects constitutive nitric oxide synthase activity in mammals. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 790-6	7.8	468
569	Relation of optimal lead positioning as defined by three-dimensional echocardiography to long-term benefit of cardiac resynchronization. <i>American Journal of Cardiology</i> , 2007 , 100, 1671-6	3	466
568	Nitric oxide metabolism and breakdown. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 273-82.6	2.6	441
567	Red blood cells express a functional endothelial nitric oxide synthase. <i>Blood</i> , 2006 , 107, 2943-51	2.2	414
566	Nitric oxide in myocardial ischemia/reperfusion injury. <i>Cardiovascular Research</i> , 2004 , 61, 402-13	9.9	333
565	Concomitant S-, N-, and heme-nitros(yl)ation in biological tissues and fluids: implications for the fate of NO in vivo. <i>FASEB Journal</i> , 2002 , 16, 1775-85	0.9	333
564	Nitrite as regulator of hypoxic signaling in mammalian physiology. <i>Medicinal Research Reviews</i> , 2009 , 29, 683-741	14.4	332
563	Vascular effects of cocoa rich in flavan-3-ols. <i>JAMA - Journal of the American Medical Association</i> , 2003 , 290, 1030-1	27.4	332
562	Nitrite reductase activity of myoglobin regulates respiration and cellular viability in myocardial ischemia-reperfusion injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10256-61	11.5	329
561	Quantitative and kinetic characterization of nitric oxide and EDRF released from cultured endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 154, 236-44	3.4	310
560	Plasma nitrite concentrations reflect the degree of endothelial dysfunction in humans. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 295-302	7.8	292
559	Acute consumption of flavanol-rich cocoa and the reversal of endothelial dysfunction in smokers. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 1276-83	15.1	289
558	Effects of Proprotein Convertase Subtilisin/Kexin Type 9 Antibodies in Adults With Hypercholesterolemia: A Systematic Review and Meta-analysis. <i>Annals of Internal Medicine</i> , 2015 , 163, 40-51	8	281
557	Erythrocytes are the major intravascular storage sites of nitrite in human blood. <i>Blood</i> , 2005 , 106, 734-9	2.2	276

556	Sustained benefits in vascular function through flavanol-containing cocoa in medicated diabetic patients a double-masked, randomized, controlled trial. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 2141-9	15.1	271
555	Circulating nitrite contributes to cardioprotection by remote ischemic preconditioning. <i>Circulation Research</i> , 2014 , 114, 1601-10	15.7	244
554	Nitrite reductase function of deoxymyoglobin: oxygen sensor and regulator of cardiac energetics and function. <i>Circulation Research</i> , 2007 , 100, 1749-54	15.7	239
553	Optimal duration of dual antiplatelet therapy after percutaneous coronary intervention with drug eluting stents: meta-analysis of randomised controlled trials. <i>BMJ, The</i> , 2015 , 350, h1618	5.9	218
552	Key bioactive reaction products of the NO/H ₂ S interaction are S/N-hybrid species, polysulfides, and nitroxyl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E4651-60	11.5	204
551	Meta-analysis of impact of different types and doses of statins on new-onset diabetes mellitus. <i>American Journal of Cardiology</i> , 2013 , 111, 1123-30	3	190
550	Red Blood Cell Function and Dysfunction: Redox Regulation, Nitric Oxide Metabolism, Anemia. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 718-742	8.4	182
549	Concomitant presence of N-nitroso and S-nitroso proteins in human plasma. <i>Free Radical Biology and Medicine</i> , 2002 , 33, 1590-6	7.8	169
548	Evidence for in vivo transport of bioactive nitric oxide in human plasma. <i>Journal of Clinical Investigation</i> , 2002 , 109, 1241-1248	15.9	166
547	Cocoa polyphenols and inflammatory mediators. <i>American Journal of Clinical Nutrition</i> , 2005 , 81, 304S-312S	12.5	163
546	Sustained increase in flow-mediated dilation after daily intake of high-flavanol cocoa drink over 1 week. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 49, 74-80	3.1	162
545	Guidelines for pre-operative cardiac risk assessment and perioperative cardiac management in non-cardiac surgery: the Task Force for Preoperative Cardiac Risk Assessment and Perioperative Cardiac Management in Non-cardiac Surgery of the European Society of Cardiology (ESC) and the European Society of Anaesthesiology (ESA). <i>European Journal of Anaesthesiology</i>	2.3	158
544	Nitrite regulates hypoxic vasodilation via myoglobin-dependent nitric oxide generation. <i>Circulation</i> , 2012 , 126, 325-34	16.7	156
543	Plasma nitrosothiols contribute to the systemic vasodilator effects of intravenously applied NO: experimental and clinical Study on the fate of NO in human blood. <i>Circulation Research</i> , 2002 , 91, 470-7	15.7	153
542	Biotransformation of organic nitrates to nitric oxide by vascular smooth muscle and endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 180, 286-93	3.4	140
541	Incidence and clinical outcome of iatrogenic femoral arteriovenous fistulas: implications for risk stratification and treatment. <i>Journal of the American College of Cardiology</i> , 2002 , 40, 291-7	15.1	135
540	NO adducts in mammalian red blood cells: too much or too little?. <i>Nature Medicine</i> , 2003 , 9, 481-2; author reply 482-3	50.5	134
539	Circulating NO pool: assessment of nitrite and nitroso species in blood and tissues. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 413-22	7.8	132

538	Flavanols and cardiovascular disease prevention. <i>European Heart Journal</i> , 2010 , 31, 2583-92	9.5	130
537	The nitric oxide/superoxide assay. Insights into the biological chemistry of the NO/O ₂ ⁻ interaction. <i>Journal of Biological Chemistry</i> , 1997 , 272, 9922-32	5.4	129
536	The significance of vasodilator-stimulated phosphoprotein for risk stratification of stent thrombosis. <i>Thrombosis and Haemostasis</i> , 2007 , 98, 1329-1334	7	129
535	Impact of left ventricular lead position in cardiac resynchronization therapy on left ventricular remodelling. A circumferential strain analysis based on 2D echocardiography. <i>European Heart Journal</i> , 2007 , 28, 1211-20	9.5	127
534	Endogenous nitric oxide and myocardial adaptation to ischemia. <i>Circulation Research</i> , 2000 , 87, 146-52	15.7	126
533	Nitric oxide release from the isolated guinea pig heart. <i>European Journal of Pharmacology</i> , 1988 , 155, 317-21	5.3	126
532	Human red blood cells at work: identification and visualization of erythrocytic eNOS activity in health and disease. <i>Blood</i> , 2012 , 120, 4229-37	2.2	115
531	Hypoxia impairs systemic endothelial function in individuals prone to high-altitude pulmonary edema. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 763-7	10.2	111
530	Whole body UVA irradiation lowers systemic blood pressure by release of nitric oxide from intracutaneous photolabile nitric oxide derivatives. <i>Circulation Research</i> , 2009 , 105, 1031-40	15.7	110
529	Dietary nitrate reverses vascular dysfunction in older adults with moderately increased cardiovascular risk. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1584-5	15.1	109
528	Advanced speckle tracking echocardiography allowing a three-myocardial layer-specific analysis of deformation parameters. <i>European Journal of Echocardiography</i> , 2009 , 10, 303-8		108
527	Endothelial nitric oxide synthase in red blood cells: key to a new erythrocrine function?. <i>Redox Biology</i> , 2014 , 2, 251-8	11.3	107
526	Nitrosopersulfide (SSNO(-)) accounts for sustained NO bioactivity of S-nitrosothiols following reaction with sulfide. <i>Redox Biology</i> , 2014 , 2, 234-44	11.3	107
525	Plasma nitroso compounds are decreased in patients with endothelial dysfunction. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 573-9	15.1	106
524	Cocoa flavanol intake improves endothelial function and Framingham Risk Score in healthy men and women: a randomised, controlled, double-masked trial: the Flaviola Health Study. <i>British Journal of Nutrition</i> , 2015 , 114, 1246-55	3.6	104
523	Central role of eNOS in the maintenance of endothelial homeostasis. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 1230-42	8.4	97
522	Transplantation of endothelial progenitor cells improves neovascularization and left ventricular function after myocardial infarction in a rat model. <i>Basic Research in Cardiology</i> , 2008 , 103, 69-77	11.8	94
521	Enzyme-independent nitric oxide formation during UVA challenge of human skin: characterization, molecular sources, and mechanisms. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 606-15	7.8	91

520	Impact of infarct transmural on layer-specific impairment of myocardial function: a myocardial deformation imaging study. <i>European Heart Journal</i> , 2009 , 30, 1467-76	9.5	86
519	Circulating blood endothelial nitric oxide synthase contributes to the regulation of systemic blood pressure and nitrite homeostasis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1861-71	9.4	85
518	Dietary nitrate supplementation improves revascularization in chronic ischemia. <i>Circulation</i> , 2012 , 126, 1983-92	16.7	84
517	Hemodialysis-induced release of hemoglobin limits nitric oxide bioavailability and impairs vascular function. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 454-9	15.1	84
516	Griess method for nitrite measurement of aqueous and protein-containing samples. <i>Methods in Enzymology</i> , 2002 , 359, 158-68	1.7	84
515	Recent methodological advances in the analysis of nitrite in the human circulation: nitrite as a biochemical parameter of the L-arginine/NO pathway. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 851, 106-23	3.2	81
514	Positive effects of nitric oxide on left ventricular function in humans. <i>European Heart Journal</i> , 2006 , 27, 1699-705	9.5	81
513	Impact of cocoa flavanol intake on age-dependent vascular stiffness in healthy men: a randomized, controlled, double-masked trial. <i>Age</i> , 2015 , 37, 9794		79
512	On the chemical biology of the nitrite/sulfide interaction. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 46, 14-24	5	79
511	Strain-encoded imaging for prediction of functional recovery in patients after acute myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
510	Prevalence and potential mechanisms leading to persistent elevation of high sensitive troponin T in patients 6 month after acute myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
509	Assessment of the dietary intake of total flavan-3-ols, monomeric flavan-3-ols, proanthocyanidins and theaflavins in the European Union. <i>British Journal of Nutrition</i> , 2014 , 111, 1463-73	3.6	77
508	Cardioprotection through S-nitros(y)lation of macrophage migration inhibitory factor. <i>Circulation</i> , 2012 , 125, 1880-9	16.7	74
507	Myocardial deformation imaging based on ultrasonic pixel tracking to identify reversible myocardial dysfunction. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 1473-81	15.1	74
506	Impact of left ventricular loading conditions on myocardial deformation parameters: analysis of early and late changes of myocardial deformation parameters after aortic valve replacement. <i>Journal of the American Society of Echocardiography</i> , 2007 , 20, 681-9	5.8	71
505	Age-dependent endothelial dysfunction is associated with failure to increase plasma nitrite in response to exercise. <i>Basic Research in Cardiology</i> , 2008 , 103, 291-7	11.8	71
504	First-generation versus second-generation drug-eluting stents in current clinical practice: updated evidence from a comprehensive meta-analysis of randomised clinical trials comprising 31 379 patients. <i>Open Heart</i> , 2014 , 1, e000064	3	70
503	Plasma nitrite reserve and endothelial function in the human forearm circulation. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 295-301	7.8	70

502	Impaired endothelial progenitor cell function predicts age-dependent carotid intimal thickening. <i>Basic Research in Cardiology</i> , 2008 , 103, 582-6	11.8	69
501	Nitric oxide synthase-derived plasma nitrite predicts exercise capacity. <i>British Journal of Sports Medicine</i> , 2007 , 41, 669-73; discussion 673	10.3	69
500	Nitric oxide differentially regulates proliferation and mobilization of endothelial progenitor cells but not of hematopoietic stem cells. <i>Thrombosis and Haemostasis</i> , 2005 , 94, 770-2	7	69
499	RBC NOS: regulatory mechanisms and therapeutic aspects. <i>Trends in Molecular Medicine</i> , 2008 , 14, 314-22	11.5	68
498	Gene expression analysis of human red blood cells. <i>International Journal of Medical Sciences</i> , 2009 , 6, 156-9	3.7	67
497	Left ventricular diastolic dysfunction in Nrf2 knock out mice is associated with cardiac hypertrophy, decreased expression of SERCA2a, and preserved endothelial function. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 906-17	7.8	64
496	The angiotensin-calcineurin-NFAT pathway mediates stretch-induced up-regulation of matrix metalloproteinases-2/-9 in atrial myocytes. <i>Basic Research in Cardiology</i> , 2009 , 104, 435-48	11.8	63
495	Evidence for in vivo transport of bioactive nitric oxide in human plasma. <i>Journal of Clinical Investigation</i> , 2002 , 109, 1241-8	15.9	63
494	Real-time transesophageal three-dimensional echocardiography for guidance of percutaneous cardiac interventions: first experience. <i>Clinical Research in Cardiology</i> , 2008 , 97, 565-74	6.1	62
493	Incidence and predictors of target vessel revascularization and clinical event rates of the sirolimus-eluting coronary stent (results from the prospective multicenter German Cypher Stent Registry). <i>American Journal of Cardiology</i> , 2005 , 95, 1302-8	3	62
492	Prognostic relevance of serum lactate kinetics in critically ill patients. <i>Intensive Care Medicine</i> , 2019 , 45, 55-61	14.5	62
491	Methylxanthines enhance the effects of cocoa flavanols on cardiovascular function: randomized, double-masked controlled studies. <i>American Journal of Clinical Nutrition</i> , 2017 , 105, 352-360	7	60
490	Myocardial T2 mapping reveals age- and sex-related differences in volunteers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 9	6.9	58
489	Dietary inorganic nitrate mobilizes circulating angiogenic cells. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1767-72	7.8	55
488	Peritoneal dialysis relieves clinical symptoms and is well tolerated in patients with refractory heart failure and chronic kidney disease. <i>European Journal of Heart Failure</i> , 2012 , 14, 530-9	12.3	55
487	Nitric oxide induced contractile dysfunction is related to a reduction in myocardial energy generation. <i>Cardiovascular Research</i> , 1997 , 36, 185-94	9.9	55
486	Interactions between cocoa flavanols and inorganic nitrate: additive effects on endothelial function at achievable dietary amounts. <i>Free Radical Biology and Medicine</i> , 2015 , 80, 121-8	7.8	54
485	On the Effects of Reactive Oxygen Species and Nitric Oxide on Red Blood Cell Deformability. <i>Frontiers in Physiology</i> , 2018 , 9, 332	4.6	54

484	Real-time three-dimensional transoesophageal echocardiography for guidance of non-coronary interventions in the catheter laboratory. <i>European Journal of Echocardiography</i> , 2009 , 10, 341-9		54
483	Determination of nitrite in human blood by combination of a specific sample preparation with high-performance anion-exchange chromatography and electrochemical detection. <i>Biomedical Applications</i> , 1996 , 685, 348-52		54
482	Decreased plasminogen activator inhibitor and tissue metalloproteinase inhibitor expression may promote increased metalloproteinase activity with increasing duration of human atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2007 , 18, 1076-82	2.7	53
481	Blockade of atrial-specific K ⁺ -currents increases atrial but not ventricular contractility by enhancing reverse mode Na ⁺ /Ca ²⁺ -exchange. <i>Cardiovascular Research</i> , 2007 , 73, 37-47	9.9	52
480	Meta-analysis of time-related benefits of statin therapy in patients with acute coronary syndrome undergoing percutaneous coronary intervention. <i>American Journal of Cardiology</i> , 2014 , 113, 1753-64	3	51
479	Thiols enhance NO formation from nitrate photolysis. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1551-9	9.8	51
478	Comprehensive meta-analysis of safety and efficacy of bivalirudin versus heparin with or without routine glycoprotein IIb/IIIa inhibitors in patients with acute coronary syndrome. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 201-213	5	50
477	Identification of a soluble guanylate cyclase in RBCs: preserved activity in patients with coronary artery disease. <i>Redox Biology</i> , 2018 , 14, 328-337	11.3	50
476	Association of fetuin-A levels with the progression of aortic valve calcification in non-dialyzed patients. <i>European Heart Journal</i> , 2009 , 30, 2054-61	9.5	50
475	Circulating microparticles carry a functional endothelial nitric oxide synthase that is decreased in patients with endothelial dysfunction. <i>Journal of the American Heart Association</i> , 2012 , 2, e003764	6	49
474	Inducible nitric oxide synthase expression and cardiomyocyte dysfunction during sustained moderate ischemia in pigs. <i>Circulation Research</i> , 2008 , 103, 1120-7	15.7	49
473	Endothelial function, nitric oxide, and cocoa flavanols. <i>Journal of Cardiovascular Pharmacology</i> , 2006 , 47 Suppl 2, S128-35; discussion S172-6	3.1	49
472	Layer-specific analysis of myocardial deformation for assessment of infarct transmural: comparison of strain-encoded cardiovascular magnetic resonance with 2D speckle tracking echocardiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2013 , 14, 570-8	4.1	48
471	Valve-in-valve implantation of Medtronic CoreValve prosthesis in patients with failing bioprosthetic aortic valves. <i>Circulation: Cardiovascular Interventions</i> , 2012 , 5, 689-97	6	48
470	Rivaroxaban Reduces Arterial Thrombosis by Inhibition of FXa-Driven Platelet Activation via Protease Activated Receptor-1. <i>Circulation Research</i> , 2020 , 126, 486-500	15.7	48
469	Abnormal T2 mapping cardiovascular magnetic resonance correlates with adverse clinical outcome in patients with suspected acute myocarditis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 38	6.9	47
468	Recommending flavanols and procyanidins for cardiovascular health: Revisited. <i>Molecular Aspects of Medicine</i> , 2018 , 61, 63-75	16.7	46
467	Interleukin-6-dependent phenotypic modulation of cardiac fibroblasts after acute myocardial infarction. <i>Basic Research in Cardiology</i> , 2014 , 109, 440	11.8	46

466	A Suprainstitutional Network for Remote Extracorporeal Life Support: A Retrospective Cohort Study. <i>JACC: Heart Failure</i> , 2016 , 4, 698-708	7.9	46
465	Recovery of neutrophil apoptosis by ectoine: a new strategy against lung inflammation. <i>European Respiratory Journal</i> , 2013 , 41, 433-42	13.6	45
464	Augmentation of left ventricular contractility by cardiac sympathetic neural stimulation. <i>Circulation</i> , 2010 , 121, 1286-94	16.7	45
463	Impact of the metabolic syndrome on angiographic and clinical events after coronary intervention using bare-metal or sirolimus-eluting stents. <i>American Journal of Cardiology</i> , 2007 , 100, 1347-52	3	45
462	Macrovascular and microvascular function after implantation of left ventricular assist devices in end-stage heart failure: Role of microparticles. <i>Journal of Heart and Lung Transplantation</i> , 2015 , 34, 921-32	5.8	43
461	Evidence for a multifactorial process involved in the impaired flow response to nitric oxide in hypertensive patients with endothelial dysfunction. <i>Hypertension</i> , 1996 , 27, 346-53	8.5	43
460	Influence of age on the absorption, metabolism, and excretion of cocoa flavanols in healthy subjects. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 1504-12	5.9	42
459	Higher endogenous nitrite levels are associated with superior exercise capacity in highly trained athletes. <i>Nitric Oxide - Biology and Chemistry</i> , 2012 , 27, 75-81	5	42
458	Initial clinical experience using the EchoNavigator(®)-system during structural heart disease interventions. <i>World Journal of Cardiology</i> , 2015 , 7, 562-70	2.1	42
457	Regulation of nerve growth factor in the heart: the role of the calcineurin-NFAT pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 568-78	5.8	41
456	MDCT detection of mitral valve calcification: prevalence and clinical relevance compared with echocardiography. <i>American Journal of Roentgenology</i> , 2007 , 188, 1264-9	5.4	41
455	Platelet-RBC interaction mediated by FasL/FasR induces procoagulant activity important for thrombosis. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3906-3925	15.9	41
454	Measurement of endothelium-dependent vasodilation in mice—brief report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2651-7	9.4	40
453	Role of nitric oxide in the regulation of coronary vascular tone in hearts from hypertensive rats. Maintenance of nitric oxide-forming capacity and increased basal production of nitric oxide. <i>Hypertension</i> , 1995 , 25, 186-93	8.5	40
452	Blood Urea Nitrogen (BUN) is independently associated with mortality in critically ill patients admitted to ICU. <i>PLoS ONE</i> , 2018 , 13, e0191697	3.7	40
451	The Latest Evolution of the Medtronic CoreValve System in the Era of Transcatheter Aortic Valve Replacement: Matched Comparison of the Evolut PRO and Evolut R. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 2314-2322	5	40
450	Vasculoprotective Effects of Dietary Cocoa Flavanols in Patients on Hemodialysis: A Double-Blind, Randomized, Placebo-Controlled Trial. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2016 , 11, 108-18	6.9	39
449	Dipyron (metamizole) can nullify the antiplatelet effect of aspirin in patients with coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 1725-1726	15.1	39

448	A multilevel analytical approach for detection and visualization of intracellular NO production and nitrosation events using diaminofluoresceins. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 2146-58	7.8	39
447	Vascular dysfunction of brachial artery after transradial access for coronary catheterization: impact of smoking and catheter changes. <i>JACC: Cardiovascular Interventions</i> , 2009 , 2, 1067-73	5	39
446	Microdialysis-based analysis of interstitial NO in situ: NO synthase-independent NO formation during myocardial ischemia. <i>Cardiovascular Research</i> , 2007 , 74, 46-55	9.9	39
445	Dietary flavanol intervention lowers the levels of endothelial microparticles in coronary artery disease patients. <i>British Journal of Nutrition</i> , 2014 , 111, 1245-52	3.6	38
444	Depletion of circulating blood NOS3 increases severity of myocardial infarction and left ventricular dysfunction. <i>Basic Research in Cardiology</i> , 2014 , 109, 398	11.8	38
443	Assessing the coronary circulation in hypertension. <i>Journal of Hypertension</i> , 1998 , 16, 1221-33	1.9	38
442	Dual atrioventricular nodal non-re-entrant tachycardia. <i>Europace</i> , 2016 , 18, 332-9	3.9	37
441	Myoglobin functions in the heart. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 252-9	7.8	37
440	Impaired effectiveness of nitric oxide-donors in resistance arteries of patients with arterial hypertension. <i>Journal of Hypertension</i> , 1996 , 14, 903-8	1.9	37
439	Left Atrial Appendage Closure Guided by Integrated Echocardiography and Fluoroscopy Imaging Reduces Radiation Exposure. <i>PLoS ONE</i> , 2015 , 10, e0140386	3.7	37
438	Complete revascularisation in ST-elevation myocardial infarction and multivessel disease: meta-analysis of randomised controlled trials. <i>Heart</i> , 2015 , 101, 1309-17	5.1	35
437	Initial results of using a novel irrigated multielectrode mapping and ablation catheter for pulmonary vein isolation. <i>Heart Rhythm</i> , 2014 , 11, 375-83	6.7	35
436	Left atrial appendage morphology is closely associated with specific echocardiographic flow pattern in patients with atrial fibrillation. <i>Europace</i> , 2015 , 17, 539-45	3.9	35
435	Quantitative analysis of endocardial and epicardial left ventricular myocardial deformation-comparison of strain-encoded cardiac magnetic resonance imaging with two-dimensional speckle-tracking echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2012 , 25, 1179-86	5.8	35
434	The L-arginine-nitric oxide pathway in hypertension. <i>Current Hypertension Reports</i> , 2003 , 5, 80-6	4.7	35
433	Clinical Frailty Scale (CFS) reliably stratifies octogenarians in German ICUs: a multicentre prospective cohort study. <i>BMC Geriatrics</i> , 2018 , 18, 162	4.1	34
432	Association of echocardiographic atrial size and atrial fibrosis in a sequential model of congestive heart failure and atrial fibrillation. <i>Cardiovascular Pathology</i> , 2008 , 17, 318-24	3.8	34
431	Desferoxamine and ethyl-3,4-dihydroxybenzoate protect myocardium by activating NOS and generating mitochondrial ROS. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H450-7	5.2	34

430	High-Dose Menaquinone-7 Supplementation Reduces Cardiovascular Calcification in a Murine Model of Extraosseous Calcification. <i>Nutrients</i> , 2015 , 7, 6991-7011	6.7	33
429	Neurofilament light chain as an early and sensitive predictor of long-term neurological outcome in patients after cardiac arrest. <i>International Journal of Cardiology</i> , 2013 , 168, 1322-7	3.2	33
428	Reductive gas-phase chemiluminescence and flow injection analysis for measurement of the nitric oxide pool in biological matrices. <i>Methods in Enzymology</i> , 2008 , 441, 295-315	1.7	32
427	The sepsis-related Organ Failure Assessment (SOFA) score is predictive for survival of patients admitted to the intensive care unit following allogeneic blood stem cell transplantation. <i>Annals of Hematology</i> , 2008 , 87, 299-304	3	32
426	Reduction of peripheral flow reserve impairs endothelial function in conduit arteries of patients with essential hypertension. <i>Journal of Hypertension</i> , 2005 , 23, 563-9	1.9	32
425	The significance of vasodilator-stimulated phosphoprotein for risk stratification of stent thrombosis. <i>Thrombosis and Haemostasis</i> , 2007 , 98, 1329-34	7	32
424	A highlight of myoglobin diversity: the nitrite reductase activity during myocardial ischemia-reperfusion. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 22, 75-82	5	31
423	Assessing the respective contributions of dietary flavanol monomers and procyanidins in mediating cardiovascular effects in humans: randomized, controlled, double-masked intervention trial. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 1229-1237	7	31
422	Modulation of Local and Systemic Heterocellular Communication by Mechanical Forces: A Role of Endothelial Nitric Oxide Synthase. <i>Antioxidants and Redox Signaling</i> , 2017 , 26, 917-935	8.4	30
421	Plasma sphingosine-1-phosphate concentrations are associated with systolic heart failure in patients with ischemic heart disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 110, 35-37	5.8	30
420	The impact of frailty on survival in elderly intensive care patients with COVID-19: the COVIP study. <i>Critical Care</i> , 2021 , 25, 149	10.8	30
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