

Dirk Jan Duncker

List of Publications by Year in descending order

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Version: 2024-02-01

241
papers

9,405
citations

41344

49
h-index

51608

86
g-index

244
all docs

244
docs citations

244
times ranked

10649
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence of microvascular angina among patients with stable symptoms in the absence of obstructive coronary artery disease: a systematic review. <i>Cardiovascular Research</i> , 2022, 118, 763-771.	3.8	16
2	Functional and structural adaptations of the coronary macro- and microvasculature to regular aerobic exercise by activation of physiological, cellular, and molecular mechanisms: ESC Working Group on Coronary Pathophysiology and Microcirculation position paper. <i>Cardiovascular Research</i> , 2022, 118, 357-371.	3.8	19
3	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2022, 118, 3016-3051.	3.8	30
4	Preregistration of animal research protocols: development and 3-year overview of preclinicaltrials.eu. <i>BMJ Open Science</i> , 2022, 6, e100259.	1.7	5
5	Comparison of Large Animal Models for Acute Ischemic Stroke: Which Model to Use?. <i>Stroke</i> , 2022, 53, 1411-1422.	2.0	36
6	An Implantable Artificial Atherosclerotic Plaque as a Novel Approach for Drug Transport Studies on Drug-Eluting Stents. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101570.	7.6	4
7	Mechanisms, therapeutic implications, and methodological challenges of gut microbiota and cardiovascular diseases: a position paper by the ESC Working Group on Coronary Pathophysiology and Microcirculation. <i>Cardiovascular Research</i> , 2022, 118, 3171-3182.	3.8	21
8	Increased oxidative stress alters coronary microvascular tone in exercising swine with multiple comorbidities. <i>Cardiovascular Research</i> , 2022, 118, .	3.8	0
9	Endothelial function in cardiovascular medicine: a consensus paper of the European Society of Cardiology Working Groups on Atherosclerosis and Vascular Biology, Aorta and Peripheral Vascular Diseases, Coronary Pathophysiology and Microcirculation, and Thrombosis. <i>Cardiovascular Research</i> , 2021, 117, 29-42.	3.8	164
10	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. <i>Cardiovascular Research</i> , 2021, 117, 43-59.	3.8	72
11	Contributions of Wall Stretch and Shear Stress to Vascular Regulation: Molecular Mechanisms of Homeostasis and Expansion. <i>Cardiac and Vascular Biology</i> , 2021, , 21-46.	0.2	0
12	An EAPCI Expert Consensus Document on Ischaemia with Non-Obstructive Coronary Arteries in Collaboration with European Society of Cardiology Working Group on Coronary Pathophysiology & Microcirculation Endorsed by Coronary Vasomotor Disorders International Study Group. <i>EuroIntervention</i> , 2021, 16, 1049-1069.	3.2	90
13	Regulation of coronary flow. , 2021, , 11-13.		0
14	A novel intra-ventricular assist device enhances cardiac performance in normal and acutely failing isolated porcine hearts. <i>International Journal of Artificial Organs</i> , 2021, , 039139882110039.	1.4	0
15	Preclinical trial of a MAP4K4 inhibitor to reduce infarct size in the pig: does cardioprotection in human stem cell-derived myocytes predict success in large mammals?. <i>Basic Research in Cardiology</i> , 2021, 116, 34.	5.9	10
16	Progress in cardiac research: from rebooting cardiac regeneration to a complete cell atlas of the heart. <i>Cardiovascular Research</i> , 2021, 117, 2161-2174.	3.8	23
17	Nuclear Imaging of Post-infarction Inflammation in Ischemic Cardiac Diseases - New Radiotracers for Potential Clinical Applications. <i>Current Radiopharmaceuticals</i> , 2021, 14, 184-208.	0.8	2
18	Vascular Ageing Features Caused by Selective DNA Damage in Smooth Muscle Cell. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-13.	4.0	15

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19	Genomic instability in the naturally and prematurely aged myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
20	Impaired pulmonary vasomotor control in exercising swine with multiple comorbidities. Basic Research in Cardiology, 2021, 116, 51.	5.9	9
21	Cardiovascular disease and COVID-19: a consensus paper from the ESC Working Group on Coronary Pathophysiology & Microcirculation, ESC Working Group on Thrombosis and the Association for Acute CardioVascular Care (ACVC), in collaboration with the European Heart Rhythm Association (EHRA). Cardiovascular Research, 2021, 117, 2705-2729.	3.8	95
22	A 3-year evaluation of preclinicaltrials.eu reveals room for improvement in preregistration of animal studies. PLoS Biology, 2021, 19, e3001397.	5.6	8
23	Endothelial Dysfunction, Atherosclerosis, and Increase of von Willebrand Factor and Factor VIII: A Randomized Controlled Trial in Swine. Thrombosis and Haemostasis, 2021, 121, 676-686.	3.4	11
24	Reduced nitric oxide bioavailability impairs myocardial oxygen balance during exercise in swine with multiple risk factors. Basic Research in Cardiology, 2021, 116, 50.	5.9	2
25	Reduced nitric oxide bioavailability impairs myocardial oxygen balance during exercise in swine with multiple risk factors. Basic Research in Cardiology, 2021, 116, 50.	5.9	7
26	Editorial: Cardiovascular Mechanobiology. Frontiers in Physiology, 2021, 12, 833941.	2.8	0
27	Mechanobiology of Microvascular Function and Structure in Health and Disease: Focus on the Coronary Circulation. Frontiers in Physiology, 2021, 12, 771960.	2.8	16
28	Depression and coronary heart disease: 2018 position paper of the ESC working group on coronary pathophysiology and microcirculation. European Heart Journal, 2020, 41, 1687-1696.	2.2	203
29	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. Cardiovascular Research, 2020, 116, 1136-1146.	3.8	66
30	Disentangling the Gordian knot of local metabolic control of coronary blood flow. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H11-H24.	3.2	14
31	Pathophysiology and diagnosis of coronary microvascular dysfunction in ST-elevation myocardial infarction. Cardiovascular Research, 2020, 116, 787-805.	3.8	119
32	Lentiviral Hematopoietic Stem Cell Gene Therapy Corrects Murine Pompe Disease. Molecular Therapy - Methods and Clinical Development, 2020, 17, 1014-1025.	4.1	26
33	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. Clinical Epigenetics, 2020, 12, 106.	4.1	20
34	Cellular, mitochondrial and molecular alterations associate with early left ventricular diastolic dysfunction in a porcine model of diabetic metabolic derangement. Scientific Reports, 2020, 10, 13173.	3.3	15
35	Perturbations in myocardial perfusion and oxygen balance in swine with multiple risk factors: a novel model of ischemia and no obstructive coronary artery disease. Basic Research in Cardiology, 2020, 115, 21.	5.9	32
36	A direct comparison of natural and acoustic-radiation-force-induced cardiac mechanical waves. Scientific Reports, 2020, 10, 18431.	3.3	11

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37	Matrix Metalloproteinases and Tissue Inhibitors of Metalloproteinases in Extracellular Matrix Remodeling during Left Ventricular Diastolic Dysfunction and Heart Failure with Preserved Ejection Fraction: A Systematic Review and Meta-Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6742.	4.1	19
38	Dichotomy between the transcriptomic landscape of naturally versus accelerated aged murine hearts. <i>Scientific Reports</i> , 2020, 10, 8136.	3.3	1
39	Both male and female obese ZSF1 rats develop cardiac dysfunction in obesity-induced heart failure with preserved ejection fraction. <i>PLoS ONE</i> , 2020, 15, e0232399.	2.5	26
40	Extracellular Matrix Analysis of Human Renal Arteries in Both Quiescent and Active Vascular State. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3905.	4.1	5
41	The ESC Working Group on Coronary Pathophysiology and Microcirculation. <i>European Heart Journal</i> , 2020, 41, 2150-2151.	2.2	1
42	Coronary microvascular disease: the next frontier for Cardiovascular Research. <i>Cardiovascular Research</i> , 2020, 116, 737-740.	3.8	13
43	Proof of principle of a novel coâ€pulsating intraâ€ventricular membrane pump. <i>Artificial Organs</i> , 2020, 44, 1267-1275.	1.9	3
44	An EAPCI Expert Consensus Document on Ischaemia with Non-Obstructive Coronary Arteries in Collaboration with European Society of Cardiology Working Group on Coronary Pathophysiology & Microcirculation Endorsed by Coronary Vasomotor Disorders International Study Group. <i>European Heart Journal</i> , 2020, 41, 3504-3520.	2.2	385
45	Endovascular procedures cause transient endothelial injury but do not disrupt mature neointima in Drug Eluting Stents. <i>Scientific Reports</i> , 2020, 10, 2173.	3.3	16
46	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on â€coronary microvascular dysfunction in cardiovascular diseaseâ€™. <i>Cardiovascular Research</i> , 2020, 116, 741-755.	3.8	147
47	Experimental animal models of coronary microvascular dysfunction. <i>Cardiovascular Research</i> , 2020, 116, 756-770.	3.8	43
48	Lower Plasma Melatonin Levels Predict Worse Long-Term Survival in Pulmonary Arterial Hypertension. <i>Journal of Clinical Medicine</i> , 2020, 9, 1248.	2.4	8
49	A new microfluidic model that allows monitoring of complex vascular structures and cell interactions in a 3D biological matrix. <i>Lab on A Chip</i> , 2020, 20, 1827-1844.	6.0	50
50	Local endothelial DNA repair deficiency causes aging-resembling endothelial-specific dysfunction. <i>Clinical Science</i> , 2020, 134, 727-746.	4.3	25
51	Coronary Microvascular Dysfunction in Cardiovascular Disease: Lessons from Large Animal Models. , 2020, , 21-43.		1
52	Impaired Oxygenation of the Right Ventricle during Development of Pulmonary Hypertension in Swine is not due to Loss of Nitric Oxide. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
53	Diabetic metabolic dysregulation and chronic kidney disease induce specific perturbations in coronary microvascular function in swine. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
54	Increased Vasoconstriction of the Pulmonary Vasculature in Response to a Hypoxic Challenge in Swine Exposed to Hypoxia in the Neonatal Period. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0

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55	Coronary microvascular dysfunction results in impaired coronary flow reserve and altered oxygen balance in a swine model of INOCA with multiple risk factors. <i>European Heart Journal</i> , 2020, 41, .	2.2	1
56	Relation between pre-existing plaque size and neointimal healing in an adult porcine model of familial hypercholesterolemia. <i>European Heart Journal</i> , 2020, 41, .	2.2	0
57	Different tryptophan-kyurenine metabolism profiles in human pulmonary arterial hypertension and animal models of pulmonary hypertension. <i>European Heart Journal</i> , 2020, 41, .	2.2	1
58	Abstract 13819: Is an Adult Familial Hypercholesterolemia, Swine Model Suited to Test Safety and Efficacy of Drug-eluting Coronary Stents?. <i>Circulation</i> , 2020, 142, .	1.6	0
59	Lower plasma melatonin levels predict worse long-term survival in pulmonary arterial hypertension. <i>European Heart Journal</i> , 2020, 41, .	2.2	0
60	Transition from postcapillary pulmonary hypertension to combined pre- and postcapillary pulmonary hypertension in swine: a key role for endothelin. <i>Journal of Physiology</i> , 2019, 597, 1157-1173.	2.9	23
61	CMTM4 regulates angiogenesis by promoting cell surface recycling of VE-cadherin to endothelial adherens junctions. <i>Angiogenesis</i> , 2019, 22, 75-93.	7.2	61
62	Indoxyl Sulfate Stimulates Angiogenesis by Regulating Reactive Oxygen Species Production via CYP1B1. <i>Toxins</i> , 2019, 11, 454.	3.4	11
63	Right ventricular oxygen delivery as a determinant of right ventricular functional reserve during exercise in juvenile swine with chronic pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H840-H850.	3.2	3
64	Coronary Vulnerable Plaque Development Is Promoted By Multidirectional Wall Shear Stress – A Pre-Clinical Imaging Study. <i>Atherosclerosis</i> , 2019, 287, e105.	0.8	0
65	Intervening with the Nitric Oxide Pathway to Alleviate Pulmonary Hypertension in Pulmonary Vein Stenosis. <i>Journal of Clinical Medicine</i> , 2019, 8, 1204.	2.4	9
66	Limited synergy of obesity and hypertension, prevalent risk factors in onset and progression of heart failure with preserved ejection fraction. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 6666-6678.	3.6	19
67	Activation of adenosine A2A but not A2B receptors is involved in uridine adenosine tetraphosphate-induced porcine coronary smooth muscle relaxation. <i>Journal of Pharmacological Sciences</i> , 2019, 141, 64-69.	2.5	9
68	A proteome comparison between human fetal and mature renal extracellular matrix identifies EMILIN1 as a regulator of renal epithelial cell adhesion. <i>Matrix Biology Plus</i> , 2019, 4, 100011.	3.5	13
69	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. <i>Scientific Reports</i> , 2019, 9, 15586.	3.3	22
70	An Adult Porcine Model Of Familial Hypercholesterolemia To Study Natural Coronary Atherosclerotic Plaque Development And Destabilization. <i>Atherosclerosis</i> , 2019, 287, e270-e271.	0.8	0
71	Chronic Kidney Disease as a Risk Factor for Heart Failure With Preserved Ejection Fraction: A Focus on Microcirculatory Factors and Therapeutic Targets. <i>Frontiers in Physiology</i> , 2019, 10, 1108.	2.8	49
72	Variation in Coronary Atherosclerosis Severity Related to a Distinct LDL (Low-Density Lipoprotein) Profile. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2338-2352.	2.4	19

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73	Cardiac remodelling in a swine model of chronic thromboembolic pulmonary hypertension: comparison of right <i>vs</i>. left ventricle. Journal of Physiology, 2019, 597, 4465-4480.	2.9	13
74	Differential impact of severe familial hypercholesterolemia on regional skeletal muscle and organ blood flows during exercise: Effects of PDE 5 inhibition. Microcirculation, 2019, 26, e12539.	1.8	0
75	Uridine adenosine tetraphosphate and purinergic signaling in cardiovascular system: An update. Pharmacological Research, 2019, 141, 32-45.	7.1	26
76	Exercise and the Coronary Circulation. , 2019, , 467-503.		4
77	Feasibility study of a synchronized diastolic injection with low contrast volume for proper quantitative assessment of aortic regurgitation in porcine models. Catheterization and Cardiovascular Interventions, 2019, 93, 963-970.	1.7	9
78	Vascular remodelling. , 2019, , 41-48.		0
79	Differential impact of severe familial hypercholesterolemia on regional skeletal muscle and organ blood flows during exercise: effects of PDE5 inhibition. FASEB Journal, 2019, 33, lb457.	0.5	0
80	Lack of Synergy between Major Risk Factors, Obesity and Hypertension, in Development of Heart Failure with Preserved Ejection Fraction. FASEB Journal, 2019, 33, .	0.5	0
81	Intact DNA Repair in Differentiated Cardiomyocytes is Essential for Maintaining Cardiac Function in Response to Physiological Stimulus. FASEB Journal, 2019, 33, 693.5.	0.5	0
82	Alterations in Myocardial Oxygen Balance, Anaerobic Metabolism and Diastolic Dysfunction in Exercising Swine with Multiple Comorbidities. FASEB Journal, 2019, 33, .	0.5	0
83	Pulmonary vascular disease in swine with multiple comorbidities. FASEB Journal, 2019, 33, 693.9.	0.5	0
84	ROSâ€NO Signaling is Altered in Exercising Swine with Multiple Comorbidities. FASEB Journal, 2019, 33, .	0.5	0
85	Activation of de novo NAD synthesis in the lung of pulmonary hypertension. , 2019, , .		0
86	Exercise Facilitates Early Recognition of Cardiac and Vascular Remodeling in Chronic Thrombo-Embolic Pulmonary Hypertension in a Novel CTEPH Swine Model. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, ajpheart.00380..	3.2	9
87	Structural and functional changes of the pulmonary vasculature after hypoxia exposure in the neonatal period - a new swine model of pulmonary vascular disease. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, ajpheart.00362..	3.2	3
88	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. Cardiovascular Research, 2018, 114, 954-964.	3.8	148
89	Reactive Oxygen Species: Radical Factors in the Evolution of Animal Life. BioEssays, 2018, 40, 1700158.	2.5	84
90	Translational Research in Cardiovascular Repair. Circulation Research, 2018, 122, 310-318.	4.5	48

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91	Cardiovascular Function of Modern Pigs Does not Comply with Allometric Scaling Laws. <i>Scientific Reports</i> , 2018, 8, 792.	3.3	27
92	Chromatin Conformation Links Distal Target Genes to CKD Loci. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 462-476.	6.1	21
93	Pulmonary vasodilation by phosphodiesterase 5 inhibition is enhanced and nitric oxide independent in early pulmonary hypertension after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H170-H179.	3.2	7
94	Serially measured circulating microRNAs and adverse clinical outcomes in patients with acute heart failure. <i>European Journal of Heart Failure</i> , 2018, 20, 89-96.	7.1	48
95	The effect of bioresorbable vascular scaffold implantation on distal coronary endothelial function in dyslipidemic swine with and without diabetes. <i>International Journal of Cardiology</i> , 2018, 252, 44-51.	1.7	4
96	P182Importance of Indoleamine-2,3-Dioxygenase in the pathogenesis of pulmonary hypertension. <i>Cardiovascular Research</i> , 2018, 114, S49-S49.	3.8	0
97	Pulmonary microvascular remodeling in chronic thrombo-embolic pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L951-L964.	2.9	10
98	Changes in the nitric oxide pathway of the pulmonary vasculature after exposure to hypoxia in swine model of neonatal pulmonary vascular disease. <i>Physiological Reports</i> , 2018, 6, e13889.	1.7	4
99	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. <i>Angiogenesis</i> , 2018, 21, 805-821.	7.2	12
100	Uridine Adenosine Tetraphosphate-Induced Coronary Relaxation Is Blunted in Swine With Pressure Overload: A Role for Vasoconstrictor Prostanoids. <i>Frontiers in Pharmacology</i> , 2018, 9, 255.	3.5	5
101	Exercise Training Has Contrasting Effects in Myocardial Infarction and Pressure Overload Due to Divergent Endothelial Nitric Oxide Synthase Regulation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1968.	4.1	10
102	Alterations in myocardial oxygen balance in exercising swine with multiple comorbidities. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 120, 26.	1.9	0
103	Comparative proteomic analysis of cat eye syndrome critical region protein 1- function in tumor-associated macrophages and immune response regulation of glial tumors. <i>Oncotarget</i> , 2018, 9, 33500-33514.	1.8	18
104	Cardiac Shear Wave Velocity Detection in the Porcine Heart. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 753-764.	1.5	50
105	Saline-Induced Coronary Hyperemia. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, .	3.9	52
106	CMTM3 (CKLF-Like Marvel Transmembrane Domain 3) Mediates Angiogenesis by Regulating Cell Surface Availability of VE-Cadherin in Endothelial Adherens Junctions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1098-1114.	2.4	30
107	The microcirculation: a key player in obesity-associated cardiovascular disease. <i>Cardiovascular Research</i> , 2017, 113, 1035-1045.	3.8	141
108	Intermittent pacing therapy favorably modulates infarct remodeling. <i>Basic Research in Cardiology</i> , 2017, 112, 28.	5.9	3

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109	Position paper of the European Society of Cardiologyâ€“working group of coronary pathophysiology and microcirculation: obesity and heart disease. <i>European Heart Journal</i> , 2017, 38, 1951-1958.	2.2	64
110	Chronic Myocardial Ischemia Leads to Loss of Maximal Oxygen Consumption and Complex I Dysfunction. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1298-1304.	1.3	18
111	Altered purinergic signaling in uridine adenosine tetraphosphate-induced coronary relaxation in swine with metabolic derangement. <i>Purinergic Signalling</i> , 2017, 13, 319-329.	2.2	12
112	Folic acid reduces doxorubicinâ€“induced cardiomyopathy by modulating endothelial nitric oxide synthase. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3277-3287.	3.6	39
113	Normalization of hemoglobin-based oxygen carrier-201 induced vasoconstriction: targeting nitric oxide and endothelin. <i>Journal of Applied Physiology</i> , 2017, 122, 1227-1237.	2.5	9
114	Oxidative injury of the pulmonary circulation in the perinatal period: Shortâ€“and longâ€“term consequences for the human cardiopulmonary system. <i>Pulmonary Circulation</i> , 2017, 7, 55-66.	1.7	24
115	Activation of CECR1 in M2-like TAMs promotes paracrine stimulation-mediated glial tumor progression. <i>Neuro-Oncology</i> , 2017, 19, now251.	1.2	44
116	Cgln1, an endothelial junction complex protein, regulates GTPase mediated angiogenesis. <i>Cardiovascular Research</i> , 2017, 113, 1776-1788.	3.8	26
117	Early detection of left ventricular diastolic dysfunction using conventional and speckle tracking echocardiography in a large animal model of metabolic dysfunction. <i>International Journal of Cardiovascular Imaging</i> , 2017, 34, 743-749.	1.5	13
118	P2595 Exacerbated pulmonary hypertension and ventilation perfusion mismatch during exercise in a swine model of chronic thromboembolic pulmonary hypertension. <i>European Heart Journal</i> , 2017, 38, .	2.2	0
119	Time course of VCAM-1 expression in reperfused myocardial infarction in swine and its relation to retention of intracoronary administered bone marrow-derived mononuclear cells. <i>PLoS ONE</i> , 2017, 12, e0178779.	2.5	6
120	Sex differences in pulmonary vascular control: focus on the nitric oxide pathway. <i>Physiological Reports</i> , 2017, 5, e13200.	1.7	5
121	Abstract 20900: Exercise Training Fails to Improve Cardiac Dysfunction in DNA Repair-Deficient Xpg Mice. <i>Circulation</i> , 2017, 136, .	1.6	0
122	Ischemic Postconditioning After Routine Thrombus Aspiration During Primary Percutaneous Coronary Intervention: Rationale and Design of the <sc>PO</sc>stconditioning <sc>R</sc>otterdam Trial. <i>Catheterization and Cardiovascular Interventions</i> , 2016, 88, 508-514.	1.7	2
123	Connecting heart failure with preserved ejection fraction and renal dysfunction: the role of endothelial dysfunction and inflammation. <i>European Journal of Heart Failure</i> , 2016, 18, 588-598.	7.1	242
124	Uridine adenosine tetraphosphate acts as a proangiogenic factor in vitro through purinergic P2Y receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H299-H309.	3.2	16
125	Pregnancy mitigates cardiac pathology in a mouse model of left ventricular pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H807-H814.	3.2	9
126	Coronary microvascular dysfunction after long-term diabetes and hypercholesterolemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1339-H1351.	3.2	52

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127	Serial Coronary Imaging of Early Atherosclerosis Development in Fast-Food-Fed Diabetic and Nondiabetic Swine. <i>JACC Basic To Translational Science</i> , 2016, 1, 449-460.	4.1	6
128	Distinct Endothelial Cell Responses in the Heart and Kidney Microvasculature Characterize the Progression of Heart Failure With Preserved Ejection Fraction in the Obese ZSF1 Rat With Cardiorenal Metabolic Syndrome. <i>Circulation: Heart Failure</i> , 2016, 9, e002760.	3.9	62
129	Severe familial hypercholesterolemia impairs the regulation of coronary blood flow and oxygen supply during exercise. <i>Basic Research in Cardiology</i> , 2016, 111, 61.	5.9	24
130	Surgical Placement of Catheters for Long-term Cardiovascular Exercise Testing in Swine. <i>Journal of Visualized Experiments</i> , 2016, , e53772.	0.3	15
131	UM206, a selective Frizzled antagonist, attenuates adverse remodeling after myocardial infarction in swine. <i>Laboratory Investigation</i> , 2016, 96, 168-176.	3.7	19
132	Changes in Coronary Blood Flow After Acute Myocardial Infarction. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, 602-613.	2.9	50
133	Limitation of Infarct Size and No-Reflow by Intracoronary Adenosine Depends Critically on Dose and Duration. <i>JACC: Cardiovascular Interventions</i> , 2015, 8, 1990-1999.	2.9	37
134	Animal and in silico models for the study of sarcomeric cardiomyopathies. <i>Cardiovascular Research</i> , 2015, 105, 439-448.	3.8	45
135	Coronary vascular regulation, remodelling, and collateralization: mechanisms and clinical implications on behalf of the working group on coronary pathophysiology and microcirculation. <i>European Heart Journal</i> , 2015, 36, 3134-3146.	2.2	177
136	The complex mural cell: Pericyte function in health and disease. <i>International Journal of Cardiology</i> , 2015, 190, 75-89.	1.7	124
137	What can we learn about treating heart failure from the heart's response to acute exercise? Focus on the coronary microcirculation. <i>Journal of Applied Physiology</i> , 2015, 119, 934-943.	2.5	20
138	Vagal nerve stimulation started just prior to reperfusion limits infarct size and no-reflow. <i>Basic Research in Cardiology</i> , 2015, 110, 508.	5.9	53
139	Normal and high eNOS levels are detrimental in both mild and severe cardiac pressure-overload. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 88, 145-154.	1.9	11
140	Regulation of Coronary Blood Flow in Health and Ischemic Heart Disease. <i>Progress in Cardiovascular Diseases</i> , 2015, 57, 409-422.	3.1	178
141	Exercise Training in Patients with Heart Disease: Review of Beneficial Effects and Clinical Recommendations. <i>Progress in Cardiovascular Diseases</i> , 2015, 57, 347-355.	3.1	132
142	Pulmonary vasoconstrictor influence of endothelin in exercising swine depends critically on phosphodiesterase 5 activity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L442-L452.	2.9	14
143	271 Coronary microvascular dysfunction during long term metabolic derangement in swine. <i>Cardiovascular Research</i> , 2014, 103, S49.1-S49.	3.8	0
144	Perspectives: Coronary microvascular dysfunction in post-infarct remodelled myocardium. <i>European Heart Journal Supplements</i> , 2014, 16, A74-A79.	0.1	4

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145	P601 Cardio-protective effects of exercise are abolished in pressure-overload following aortic constriction by increased eNOS uncoupling and oxidative stress. <i>Cardiovascular Research</i> , 2014, 103, S108.4-S108.	3.8	1
146	Reduced contribution of endothelin to the regulation of systemic and pulmonary vascular tone in severe familial hypercholesterolaemia. <i>Journal of Physiology</i> , 2014, 592, 1757-1769.	2.9	10
147	Gene reprogramming in exercise-induced cardiac hypertrophy in swine: A transcriptional genomics approach. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 168-174.	1.9	10
148	Exercise training in adverse cardiac remodeling. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 1079-91.	2.8	8
149	Organ-Specific Physiological Responses to Acute Physical Exercise and Long-Term Training in Humans. <i>Physiology</i> , 2014, 29, 421-436.	3.1	75
150	The microRNA-15 family inhibits the TGF β 2-pathway in the heart. <i>Cardiovascular Research</i> , 2014, 104, 61-71.	3.8	147
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