

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	Regulation of Coronary Blood Flow During Exercise. <i>Physiological Reviews</i> , 2008, 88, 1009-1086.	28.8	734
2	Myocardial Protection by Brief Ischemia in Noncardiac Tissue. <i>Circulation</i> , 1996, 94, 2193-2200.	1.6	507
3	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
4	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
5	Endothelial nitric oxide synthase overexpression attenuates congestive heart failure in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4891-4896.	7.1	211
6	Depression and coronary heart disease: 2018 position paper of the ESC working group on coronary pathophysiology and microcirculation. <i>European Heart Journal</i> , 2020, 41, 1687-1696.	2.2	203
7	Peripheral Circulation. , 2012, 2, 321-447.		197
8	ATP-Sensitive K ⁺ Channels, Adenosine, and Nitric Oxide-Mediated Mechanisms Account for Coronary Vasodilation During Exercise. <i>Circulation Research</i> , 1998, 82, 346-359.	4.5	181
9	Regulation of Coronary Blood Flow in Health and Ischemic Heart Disease. <i>Progress in Cardiovascular Diseases</i> , 2015, 57, 409-422.	3.1	178
10	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
11	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
12	Nucleotide Excision DNA Repair Is Associated With Age-Related Vascular Dysfunction. <i>Circulation</i> , 2012, 126, 468-478.	1.6	153
13	Multiple common comorbidities produce left ventricular diastolic dysfunction associated with coronary microvascular dysfunction, oxidative stress, and myocardial stiffening. <i>Cardiovascular Research</i> , 2018, 114, 954-964.	3.8	148
14	The microRNA-15 family inhibits the TGF β 2-pathway in the heart. <i>Cardiovascular Research</i> , 2014, 104, 61-71.	3.8	147
15	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on "coronary microvascular dysfunction in cardiovascular disease". <i>Cardiovascular Research</i> , 2020, 116, 741-755.	3.8	147
16	The microcirculation: a key player in obesity-associated cardiovascular disease. <i>Cardiovascular Research</i> , 2017, 113, 1035-1045.	3.8	141
17	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
18	Time Course and Mechanism of Myocardial Catecholamine Release During Transient Ischemia In Vivo. <i>Circulation</i> , 2000, 101, 2645-2650.	1.6	131

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19	Angiotensin-Converting Enzyme Inhibition and Angiotensin II Type 1 Receptor Blockade Prevent Cardiac Remodeling in Pigs After Myocardial Infarction. <i>Circulation</i> , 2000, 102, 1556-1563.	1.6	125
20	The complex mural cell: Pericyte function in health and disease. <i>International Journal of Cardiology</i> , 2015, 190, 75-89.	1.7	124
21	Reactive Oxygen Species and the Cardiovascular System. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-15.	4.0	121
22	Pathophysiology and diagnosis of coronary microvascular dysfunction in ST-elevation myocardial infarction. <i>Cardiovascular Research</i> , 2020, 116, 787-805.	3.8	119
23	The coronary circulation in exercise training. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H10-H23.	3.2	114
24	Early Exercise Training Normalizes Myofilament Function and Attenuates Left Ventricular Pump Dysfunction in Mice With a Large Myocardial Infarction. <i>Circulation Research</i> , 2007, 100, 1079-1088.	4.5	112
25	Autonomic Control of Vasomotion in the Porcine Coronary Circulation During Treadmill Exercise. <i>Circulation Research</i> , 1998, 82, 1312-1322.	4.5	109
26	Alterations in Myofilament Function Contribute to Left Ventricular Dysfunction in Pigs Early After Myocardial Infarction. <i>Circulation Research</i> , 2004, 95, e85-95.	4.5	109
27	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). <i>Cardiovascular Research</i> , 2021, 117, 2705-2729.	3.8	95
28	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
29	Reactive Oxygen Species: Radical Factors in the Evolution of Animal Life. <i>BioEssays</i> , 2018, 40, 1700158.	2.5	84
30	Functional and Structural Adaptations of Coronary Microvessels Distal to a Chronic Coronary Artery Stenosis. <i>Circulation Research</i> , 2008, 102, 795-803.	4.5	82
31	Organ-Specific Physiological Responses to Acute Physical Exercise and Long-Term Training in Humans. <i>Physiology</i> , 2014, 29, 421-436.	3.1	75
32	Magnetic resonance imaging of haemorrhage within reperfused myocardial infarcts: possible interference with iron oxide-labelled cell tracking?. <i>European Heart Journal</i> , 2006, 27, 1620-1626.	2.2	73
33	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
34	Contribution of endothelin and its receptors to the regulation of vascular tone during exercise is different in the systemic, coronary and pulmonary circulation. <i>Cardiovascular Research</i> , 2003, 59, 745-754.	3.8	69
35	Multidirectional wall shear stress promotes advanced coronary plaque development: comparing five shear stress metrics. <i>Cardiovascular Research</i> , 2020, 116, 1136-1146.	3.8	66
36	Role of adenosine in the regulation of coronary blood flow in swine at rest and during treadmill exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 275, H1663-H1672.	3.2	64

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37	Position paper of the European Society of Cardiology's working group of coronary pathophysiology and microcirculation: obesity and heart disease. <i>European Heart Journal</i> , 2017, 38, 1951-1958.	2.2	64
38	Beneficial effects of exercise training after myocardial infarction require full eNOS expression. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 1041-1049.	1.9	62
39	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
40	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
41	Rapid Ventricular Pacing Produces Myocardial Protection by Nonischemic Activation of K ATP + Channels. <i>Circulation</i> , 1996, 93, 178-186.	1.6	61
42	NO and prostanoids blunt endothelin-mediated coronary vasoconstrictor influence in exercising swine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2075-H2081.	3.2	53
43	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
44	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
45	Saline-Induced Coronary Hyperemia. <i>Circulation: Cardiovascular Interventions</i> , 2017, 10, .	3.9	52
46	5-Hydroxytryptamine-induced tachycardia in the pig: possible involvement of a new type of 5-hydroxytryptamine receptor. <i>British Journal of Pharmacology</i> , 1988, 93, 663-671.	5.4	51
47	Coronary blood flow regulation in exercising swine involves parallel rather than redundant vasodilator pathways. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H424-H433.	3.2	51
48	Coronary microvascular dysfunction in a porcine model of early atherosclerosis and diabetes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H85-H94.	3.2	50
49	Changes in Coronary Blood Flow After Acute Myocardial Infarction. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, 602-613.	2.9	50
50	Cardiac Shear Wave Velocity Detection in the Porcine Heart. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 753-764.	1.5	50
51	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
52	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
53	Translational Research in Cardiovascular Repair. <i>Circulation Research</i> , 2018, 122, 310-318.	4.5	48
54	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

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55	Animal and in silico models for the study of sarcomeric cardiomyopathies. <i>Cardiovascular Research</i> , 2015, 105, 439-448.	3.8	45
56	Exercise training does not improve cardiac function in compensated or decompensated left ventricular hypertrophy induced by aortic stenosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 1017-1025.	1.9	44
57	Activation of CECR1 in M2-like TAMs promotes paracrine stimulation-mediated glial tumor progression. <i>Neuro-Oncology</i> , 2017, 19, now251.	1.2	44
58	Experimental animal models of coronary microvascular dysfunction. <i>Cardiovascular Research</i> , 2020, 116, 756-770.	3.8	43
59	Prior exercise improves survival, infarct healing, and left ventricular function after myocardial infarction. <i>Journal of Applied Physiology</i> , 2009, 107, 928-936.	2.5	42
60	Endogenous Nitric Oxide Masks β -Adrenergic Coronary Vasoconstriction During Exercise in the Ischemic Heart. <i>Circulation Research</i> , 1997, 80, 196-207.	4.5	42
61	Regulation of coronary resistance vessel tone in response to exercise. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 802-813.	1.9	40
62	Control of pulmonary vascular tone during exercise in health and pulmonary hypertension. , 2008, 119, 242-263.		39
63	Folic acid reduces doxorubicin-induced cardiomyopathy by modulating endothelial nitric oxide synthase. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3277-3287.	3.6	39
64	Prevention of Myofilament Dysfunction by β -Blocker Therapy in Postinfarct Remodeling. <i>Circulation: Heart Failure</i> , 2009, 2, 233-242.	3.9	38
65	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
66	Autonomic control of cardiovascular performance and whole body O ₂ delivery and utilization in swine during treadmill exercise. <i>Cardiovascular Research</i> , 1998, 39, 459-474.	3.8	36
67	Comparison of Large Animal Models for Acute Ischemic Stroke: Which Model to Use?. <i>Stroke</i> , 2022, 53, 1411-1422.	2.0	36
68	Detrimental effect of combined exercise training and eNOS overexpression on cardiac function after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1513-H1523.	3.2	35
69	Interaction between prostanoids and nitric oxide in regulation of systemic, pulmonary, and coronary vascular tone in exercising swine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H1114-H1123.	3.2	34
70	KCa ⁺ channels contribute to exercise-induced coronary vasodilation in swine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2090-H2097.	3.2	34
71	Both β_1 - and β_2 -adrenoceptors contribute to feedforward coronary resistance vessel dilation during exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H921-H929.	3.2	34
72	Role of adenosine in ischemic preconditioning in rats depends critically on the duration of the stimulus and involves both A ₁ and A ₃ receptors. <i>Cardiovascular Research</i> , 2001, 51, 701-708.	3.8	32

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73	Perturbations in myocardial perfusion and oxygen balance in swine with multiple risk factors: a novel model of ischemia and no obstructive coronary artery disease. <i>Basic Research in Cardiology</i> , 2020, 115, 21.	5.9	32
74	Cardioprotection in Pigs by Exogenous Norepinephrine but not by Cerebral Ischemiaâ€œInduced Release of Endogenous Norepinephrine. <i>Stroke</i> , 2001, 32, 767-774.	2.0	30
75	Uridine adenosine tetraphosphate is a novel vasodilator in the coronary microcirculation which acts through purinergic P1 but not P2 receptors. <i>Pharmacological Research</i> , 2013, 67, 10-17.	7.1	30
76	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
77	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
78	The effects of nisoldipine (Bay K 5552) on cardiovascular performance and regional blood flow in pentobarbital â€œanaesthetized pigs with or without I ² â€œadrenoceptor blockade. <i>British Journal of Pharmacology</i> , 1986, 88, 9-18.	5.4	28
79	Systemic haemodynamic actions of pimobendan (UDâ€œCG 115 BS) and its demethylmetabolite UDâ€œCG 212 Cl in the conscious pig. <i>British Journal of Pharmacology</i> , 1987, 91, 609-615.	5.4	28
80	Transmural Heterogeneity of Myofilament Function and Sarcomeric Protein Phosphorylation in Remodeled Myocardium of Pigs with a Recent Myocardial Infarction. <i>Frontiers in Physiology</i> , 2011, 2, 83.	2.8	28
81	Effect of treadmill exercise on transmural distribution of blood flow in hypertrophied left ventricle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 275, H1274-H1282.	3.2	27
82	Cardiovascular Function of Modern Pigs Does not Comply with Allometric Scaling Laws. <i>Scientific Reports</i> , 2018, 8, 792.	3.3	27
83	Alterations in vasomotor control of coronary resistance vessels in remodelled myocardium of swine with a recent myocardial infarction. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 485-497.	2.8	26
84	Cgnl1, an endothelial junction complex protein, regulates GTPase mediated angiogenesis. <i>Cardiovascular Research</i> , 2017, 113, 1776-1788.	3.8	26
85	Uridine adenosine tetraphosphate and purinergic signaling in cardiovascular system: An update. <i>Pharmacological Research</i> , 2019, 141, 32-45.	7.1	26
86	Lentiviral Hematopoietic Stem Cell Gene Therapy Corrects Murine Pompe Disease. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 17, 1014-1025.	4.1	26
87	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
88	Local endothelial DNA repair deficiency causes aging-resembling endothelial-specific dysfunction. <i>Clinical Science</i> , 2020, 134, 727-746.	4.3	25
89	Exercise hyperaemia in the heart: the search for the dilator mechanism. <i>Journal of Physiology</i> , 2007, 583, 847-854.	2.9	24
90	Enhanced myofilament responsiveness upon I ² -adrenergic stimulation in post-infarct remodeled myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 487-499.	1.9	24

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91	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
92	Oxidative injury of the pulmonary circulation in the perinatal period: Short- and long-term consequences for the human cardiopulmonary system. <i>Pulmonary Circulation</i> , 2017, 7, 55-66.	1.7	24
93	Quantitative analysis of exercise-induced enhancement of early- and late-systolic retrograde coronary blood flow. <i>Journal of Applied Physiology</i> , 2010, 108, 507-514.	2.5	23
94	Transition from post-capillary pulmonary hypertension to combined pre- and post-capillary pulmonary hypertension in swine: a key role for endothelin. <i>Journal of Physiology</i> , 2019, 597, 1157-1173.	2.9	23
95	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
96	Evidence against a role for dopamine D ₁ receptors in the myocardium of the pig. <i>British Journal of Pharmacology</i> , 1991, 104, 246-250.	5.4	22
97	Acute Adaptations of the Coronary Circulation to Exercise. <i>Cell Biochemistry and Biophysics</i> , 2005, 43, 017-036.	1.8	22
98	Nitric oxide blunts the endothelin-mediated pulmonary vasoconstriction in exercising swine. <i>Journal of Physiology</i> , 2005, 568, 629-638.	2.9	22
99	Exercise unmasks autonomic dysfunction in swine with a recent myocardial infarction. <i>Cardiovascular Research</i> , 2005, 65, 889-896.	3.8	22
100	Early exercise training after myocardial infarction prevents contractile but not electrical remodelling or hypertrophy. <i>Cardiovascular Research</i> , 2010, 86, 72-81.	3.8	22
101	Nitroso-redox balance in control of coronary vasomotor tone. <i>Journal of Applied Physiology</i> , 2012, 112, 1644-1652.	2.5	22
102	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. <i>Scientific Reports</i> , 2019, 9, 15586.	3.3	22
103	Cardiac remodeling and contractile function in acid α -glucosidase knockout mice. <i>Physiological Genomics</i> , 2001, 5, 171-179.	2.3	21
104	Serial measurement of hFABP and high-sensitivity troponin I post-PCI in STEMI: how fast and accurate can myocardial infarct size and no-reflow be predicted?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1104-H1110.	3.2	21
105	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
106	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
107	Nimodipine-induced changes in the distribution of carotid blood flow and cardiac output in pentobarbitone-anaesthetized pigs. <i>British Journal of Pharmacology</i> , 1986, 89, 35-46.	5.4	20
108	Nitric oxide production is maintained in exercising swine with chronic left ventricular dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H2198-H2209.	3.2	20

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109	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
110	H3K27ac acetylome signatures reveal the epigenomic reorganization in remodeled non-failing human hearts. <i>Clinical Epigenetics</i> , 2020, 12, 106.	4.1	20
111	Nicorandil-induced changes in the distribution of cardiac output and coronary blood flow in pigs. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1987, 336, 352-8.	3.0	19
112	New Insights into Cardioprotection by Ischemic Preconditioning and Other Forms of Stressa. <i>Annals of the New York Academy of Sciences</i> , 1999, 874, 178-191.	3.8	19
113	Blunted coronary vasodilator response to uridine adenosine tetraphosphate in post-infarct remodeled myocardium is due to reduced P1 receptor activation. <i>Pharmacological Research</i> , 2013, 77, 22-29.	7.1	19
114	UM206, a selective Frizzled antagonist, attenuates adverse remodeling after myocardial infarction in swine. <i>Laboratory Investigation</i> , 2016, 96, 168-176.	3.7	19
115	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
116	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
117	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
118	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
119	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
120	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
121	Cardiovascular profile of the calcium sensitizer EMD 57033 in open-chest anaesthetized pigs with regionally stunned myocardium. <i>British Journal of Pharmacology</i> , 2000, 129, 1413-1422.	5.4	17
122	Phosphodiesterase 5 inhibition-induced coronary vasodilation is reduced after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H1370-H1381.	3.2	17
123	Cardiovascular effects of the novel Ca ²⁺ -sensitizer EMD 57033 in pigs at rest and during treadmill exercise. <i>British Journal of Pharmacology</i> , 1997, 122, 1257-1270.	5.4	16
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	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
126	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

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127	Mechanobiology of Microvascular Function and Structure in Health and Disease: Focus on the Coronary Circulation. <i>Frontiers in Physiology</i> , 2021, 12, 771960.	2.8	16
128	Surgical Placement of Catheters for Long-term Cardiovascular Exercise Testing in Swine. <i>Journal of Visualized Experiments</i> , 2016, , e53772.	0.3	15
129	Cellular, mitochondrial and molecular alterations associate with early left ventricular diastolic dysfunction in a porcine model of diabetic metabolic derangement. <i>Scientific Reports</i> , 2020, 10, 13173.	3.3	15
130	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
131	Decrease in coronary vascular volume in systole augments cardiac contraction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H731-H737.	3.2	14
132	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
133	Disentangling the Gordian knot of local metabolic control of coronary blood flow. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H11-H24.	3.2	14
134	Genomic instability in the naturally and prematurely aged myocardium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
135	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
136	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
137	Cardiac remodelling in a swine model of chronic thromboembolic pulmonary hypertension: comparison of right <i>vs</i>. left ventricle. <i>Journal of Physiology</i> , 2019, 597, 4465-4480.	2.9	13
138	Coronary microvascular disease: the next frontier for Cardiovascular Research. <i>Cardiovascular Research</i> , 2020, 116, 737-740.	3.8	13
139	Integrated control of pulmonary vascular tone by endothelin and angiotensin II in exercising swine depends on gender. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1976-H1985.	3.2	12
140	Familial hypercholesterolemia impairs exercise-induced systemic vasodilation due to reduced NO bioavailability. <i>Journal of Applied Physiology</i> , 2013, 115, 1767-1776.	2.5	12
141	Myocardial perfusion MRI shows impaired perfusion of the mouse hypertrophic left ventricle. <i>International Journal of Cardiovascular Imaging</i> , 2014, 30, 619-628.	1.5	12
142	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
143	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. <i>Angiogenesis</i> , 2018, 21, 805-821.	7.2	12
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