

# Rainer Schulz

## List of Publications by Year in descending order

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272  
papers

22,525  
citations

9234

74  
h-index

10708

138  
g-index

279  
all docs

279  
docs citations

279  
times ranked

20726  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Cathepsin D-Cleaved 16 kDa Form of Prolactin Mediates Postpartum Cardiomyopathy. <i>Cell</i> , 2007, 128, 589-600.	13.5	736
2	Interaction of Cardiovascular Risk Factors with Myocardial Ischemia/Reperfusion Injury, Preconditioning, and Postconditioning. <i>Pharmacological Reviews</i> , 2007, 59, 418-458.	7.1	631
3	Interaction of Risk Factors, Comorbidities, and Comedications with Ischemia/Reperfusion Injury and Cardioprotection by Preconditioning, Postconditioning, and Remote Conditioning. <i>Pharmacological Reviews</i> , 2014, 66, 1142-1174.	7.1	521
4	Plasma nitrite reflects constitutive nitric oxide synthase activity in mammals. <i>Free Radical Biology and Medicine</i> , 2003, 35, 790-796.	1.3	519
5	Red blood cells express a functional endothelial nitric oxide synthase. <i>Blood</i> , 2006, 107, 2943-2951.	0.6	490
6	Multitarget Strategies to Reduce Myocardial Ischemia/Reperfusion Injury. <i>Journal of the American College of Cardiology</i> , 2019, 73, 89-99.	1.2	484
7	Postconditioning and protection from reperfusion injury: where do we stand? * Position Paper from the Working Group of Cellular Biology of the Heart of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2010, 87, 406-423.	1.8	447
8	Cardioprotection. <i>Circulation</i> , 2008, 118, 1915-1919.	1.6	407
9	Nitric oxide in myocardial ischemia/reperfusion injury. <i>Cardiovascular Research</i> , 2004, 61, 402-413.	1.8	394
10	Coronary Microembolization. <i>Circulation</i> , 2009, 120, 1822-1836.	1.6	373
11	High-Density Lipoproteins and Their Constituent, Sphingosine-1-Phosphate, Directly Protect the Heart Against Ischemia/Reperfusion Injury In Vivo via the S1P <sub>3</sub> Lysophospholipid Receptor. <i>Circulation</i> , 2006, 114, 1403-1409.	1.6	372
12	TNF $\alpha$ in atherosclerosis, myocardial ischemia/reperfusion and heart failure. , 2010, 127, 295-314.		371
13	Signal Transducer and Activator of Transcription 3 Is Required for Myocardial Capillary Growth, Control of Interstitial Matrix Deposition, and Heart Protection From Ischemic Injury. <i>Circulation Research</i> , 2004, 95, 187-195.	2.0	345
14	Inhibition of permeability transition pore opening by mitochondrial STAT3 and its role in myocardial ischemia/reperfusion. <i>Basic Research in Cardiology</i> , 2010, 105, 771-785.	2.5	335
15	ATP Release From Activated Neutrophils Occurs via Connexin 43 and Modulates Adenosine-Dependent Endothelial Cell Function. <i>Circulation Research</i> , 2006, 99, 1100-1108.	2.0	314
16	Practical guidelines for rigor and reproducibility in preclinical and clinical studies on cardioprotection. <i>Basic Research in Cardiology</i> , 2018, 113, 39.	2.5	311
17	The myocardial JAK/STAT pathway: From protection to failure. , 2008, 120, 172-185.		304
18	Loss of cardioprotection with ageing. <i>Cardiovascular Research</i> , 2009, 83, 247-261.	1.8	296

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19	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2018, 114, 19-34.	1.8	284
20	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017, 8, 349-369.	2.9	279
21	Novel targets and future strategies for acute cardioprotection: Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2017, 113, 564-585.	1.8	278
22	Connexin 43 in cardiomyocyte mitochondria and its increase by ischemic preconditioning. <i>Cardiovascular Research</i> , 2005, 67, 234-244.	1.8	270
23	Adenosine-Mediated Effects of Ticagrelor. <i>Journal of the American College of Cardiology</i> , 2014, 63, 2503-2509.	1.2	265
24	Cardioprotection by Ischemic Postconditioning Is Lost in Aged and STAT3-Deficient Mice. <i>Circulation Research</i> , 2008, 102, 131-135.	2.0	257
25	Inhibition of mitochondrial permeability transition pore opening: the holy grail of cardioprotection. <i>Basic Research in Cardiology</i> , 2010, 105, 151-154.	2.5	256
26	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
27	Ischemic Postconditioning in Pigs. <i>Circulation Research</i> , 2009, 104, 15-18.	2.0	240
28	Impairment of Diazoxide-Induced Formation of Reactive Oxygen Species and Loss of Cardioprotection in Connexin 43 Deficient Mice. <i>Circulation Research</i> , 2005, 97, 583-586.	2.0	226
29	Translocation of Connexin 43 to the Inner Mitochondrial Membrane of Cardiomyocytes Through the Heat Shock Protein 90 $\alpha$ -Dependent TOM Pathway and Its Importance for Cardioprotection. <i>Circulation Research</i> , 2006, 99, 93-101.	2.0	221
30	Selective inhibition of Cx43 hemichannels by Gap19 and its impact on myocardial ischemia/reperfusion injury. <i>Basic Research in Cardiology</i> , 2013, 108, 309.	2.5	216
31	Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. <i>European Heart Journal</i> , 2016, 37, 1789-1798.	1.0	210
32	Translating cardioprotection for patient benefit: position paper from the Working Group of Cellular Biology of the Heart of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2013, 98, 7-27.	1.8	209
33	TNF $\pm$ in myocardial ischemia/reperfusion, remodeling and heart failure. <i>Heart Failure Reviews</i> , 2011, 16, 49-69.	1.7	207
34	Connexin 43 is an emerging therapeutic target in ischemia/reperfusion injury, cardioprotection and neuroprotection. , 2015, 153, 90-106.		194
35	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. <i>Pharmacological Reviews</i> , 2017, 69, 396-478.	7.1	191
36	Ischemic postconditioning: experimental models and protocol algorithms. <i>Basic Research in Cardiology</i> , 2009, 104, 469-483.	2.5	182

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37	Myocardial Dysfunction With Coronary Microembolization. <i>Circulation Research</i> , 2002, 90, 807-813.	2.0	181
38	Infarct size reduction by AT1-receptor blockade through a signal cascade of AT2-receptor activation, bradykinin and prostaglandins in pigs. <i>Journal of the American College of Cardiology</i> , 1998, 32, 1787-1796.	1.2	177
39	Coronary Microembolization: the Role of TNF- $\alpha$ in Contractile Dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, 51-62.	0.9	176
40	Myocardial hibernation: a delicate balance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H984-H999.	1.5	176
41	The role of gasotransmitters $\langle \text{sc} \rangle \langle \text{sc} \rangle \text{NO} \langle / \text{sc} \rangle \langle / \text{sc} \rangle$ , $\langle \text{sc} \rangle \langle \text{sc} \rangle \text{H} \langle \text{sub} \rangle 2 \langle / \text{sub} \rangle \text{S} \langle / \text{sc} \rangle \langle / \text{sc} \rangle$ and $\langle \text{sc} \rangle \langle \text{sc} \rangle \text{CO} \langle / \text{sc} \rangle \langle / \text{sc} \rangle$ in myocardial ischaemia/reperfusion injury and cardioprotection by preconditioning, postconditioning and remote conditioning. <i>British Journal of Pharmacology</i> , 2015, 172, 1587-1606.	2.7	163
42	Plasma Nitrosothiols Contribute to the Systemic Vasodilator Effects of Intravenously Applied NO. <i>Circulation Research</i> , 2002, 91, 470-477.	2.0	162
43	Loss of ischemic preconditioning's cardioprotection in aged mouse hearts is associated with reduced gap junctional and mitochondrial levels of connexin 43. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H1764-H1769.	1.5	161
44	Preprocedural Statin Medication Reduces the Extent of Periprocedural Non- $\alpha$ Q-Wave Myocardial Infarction. <i>Circulation</i> , 2002, 106, 2180-2183.	1.6	158
45	Presence of connexin 43 in subsarcolemmal, but not in interfibrillar cardiomyocyte mitochondria. <i>Basic Research in Cardiology</i> , 2009, 104, 141-147.	2.5	157
46	The coronary circulation in acute myocardial ischaemia/reperfusion injury: a target for cardioprotection. <i>Cardiovascular Research</i> , 2019, 115, 1143-1155.	1.8	151
47	Bidirectional Role of Tumor Necrosis Factor- $\alpha$ in Coronary Microembolization. <i>Circulation Research</i> , 2007, 100, 140-146.	2.0	149
48	Phosphoinositide 3-Kinase Gamma Inhibition Protects From Anthracycline Cardiotoxicity and Reduces Tumor Growth. <i>Circulation</i> , 2018, 138, 696-711.	1.6	145
49	ESC Working Group Cellular Biology of the Heart: Position Paper: improving the preclinical assessment of novel cardioprotective therapies. <i>Cardiovascular Research</i> , 2014, 104, 399-411.	1.8	143
50	Prevention of Ischemic Preconditioning Only by Combined Inhibition of Protein Kinase C and Protein Tyrosine Kinase in Pigs. <i>Journal of Molecular and Cellular Cardiology</i> , 1998, 30, 197-209.	0.9	142
51	Oxidative modification of tropomyosin and myocardial dysfunction following coronary microembolization. <i>European Heart Journal</i> , 2006, 27, 875-881.	1.0	142
52	Improvement of regional myocardial blood flow and function and reduction of infarct size with ivabradine: protection beyond heart rate reduction. <i>European Heart Journal</i> , 2008, 29, 2265-2275.	1.0	129
53	Immune cells as targets for cardioprotection: new players and novel therapeutic opportunities. <i>Cardiovascular Research</i> , 2019, 115, 1117-1130.	1.8	125
54	Connexin43 in cardiomyocyte mitochondria contributes to mitochondrial potassium uptake. <i>Cardiovascular Research</i> , 2009, 83, 747-756.	1.8	124

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55	Coronary microembolization*1. Journal of Molecular and Cellular Cardiology, 2004, 37, 23-31.	0.9	123
56	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2017, 113, 725-736.	1.8	114
57	Involvement of endogenous adenosine in ischaemic preconditioning in swine. Pflugers Archiv European Journal of Physiology, 1995, 430, 273-282.	1.3	112
58	Mitochondrial connexin 43 impacts on respiratory complex I activity and mitochondrial oxygen consumption. Journal of Cellular and Molecular Medicine, 2012, 16, 1649-1655.	1.6	102
59	No loss of cardioprotection by postconditioning in connexin 43-deficient mice. Basic Research in Cardiology, 2006, 101, 354-356.	2.5	100
60	Pathophysiology of Myocardial Infarction. Herz, 2008, 33, 88-100.	0.4	100
61	Vasoconstrictor Potential of Coronary Aspirate From Patients Undergoing Stenting of Saphenous Vein Aortocoronary Bypass Grafts and Its Pharmacological Attenuation. Circulation Research, 2011, 108, 344-352.	2.0	100
62	Mitochondrial Cx43 hemichannels contribute to mitochondrial calcium entry and cell death in the heart. Basic Research in Cardiology, 2017, 112, 27.	2.5	98
63	Positive effects of nitric oxide on left ventricular function in humans. European Heart Journal, 2006, 27, 1699-1705.	1.0	96
64	Cyclosporine A at Reperfusion Reduces Infarct Size in Pigs. Cardiovascular Drugs and Therapy, 2010, 24, 85-87.	1.3	95
65	The in-situ pig heart with regional ischemia/reperfusion â€” Ready for translation. Journal of Molecular and Cellular Cardiology, 2011, 50, 951-963.	0.9	94
66	Molecular and cellular function of the proprotein convertase subtilisin/kexin type 9 (PCSK9). Basic Research in Cardiology, 2015, 110, 4.	2.5	94
67	Effects of P2Y <sub>12</sub> receptor antagonists beyond platelet inhibition â€” comparison of ticagrelor with thienopyridines. British Journal of Pharmacology, 2016, 173, 1163-1178.	2.7	92
68	Calcium Responsiveness in Regional Myocardial Short-term Hibernation and Stunning in the In Situ Porcine Heart. Circulation, 1996, 93, 1556-1566.	1.6	89
69	Definition of hidden drug cardiotoxicity: paradigm change in cardiac safety testing and its clinical implications. European Heart Journal, 2019, 40, 1771-1777.	1.0	88
70	Connexin 43 and ischemic preconditioning. Cardiovascular Research, 2004, 62, 335-344.	1.8	84
71	No Prevention of Ischemic Preconditioning by the Protein Kinase C Inhibitor Staurosporine in Swine. Circulation Research, 1996, 79, 407-414.	2.0	84
72	Pharmacodynamics and pharmacokinetics of single doses of subcutaneous pegylated human G-CSF mutant (Ro 25-8315) in healthy volunteers: Comparison with single and multiple daily doses of filgrastim. American Journal of Hematology, 2001, 66, 245-251.	2.0	81

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73	Glucocorticoid Treatment Prevents Progressive Myocardial Dysfunction Resulting From Experimental Coronary Microembolization. <i>Circulation</i> , 2004, 109, 2337-2342.	1.6	81
74	Connexin 43 in ischemic pre- and postconditioning. <i>Heart Failure Reviews</i> , 2007, 12, 261-266.	1.7	80
75	Tumor Necrosis Factor- $\alpha$ and Its Receptors 1 and 2. <i>Circulation</i> , 2009, 119, 1355-1357.	1.6	80
76	Monoamine Oxidases Are Mediators of Endothelial Dysfunction in the Mouse Aorta. <i>Hypertension</i> , 2013, 62, 140-146.	1.3	78
77	HFA1 Encoding an Organelle-specific Acetyl-CoA Carboxylase Controls Mitochondrial Fatty Acid Synthesis in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 21779-21786.	1.6	75
78	Pharmacological modulation of connexin-formed channels in cardiac pathophysiology. <i>British Journal of Pharmacology</i> , 2011, 163, 469-483.	2.7	75
79	The STAT3 Inhibitor Stattic Impairs Cardiomyocyte Mitochondrial Function Through Increased Reactive Oxygen Species Formation. <i>Current Pharmaceutical Design</i> , 2013, 19, 6890-6895.	0.9	75
80	p38 MAP kinase is a mediator of ischemic preconditioning in pigs. <i>Cardiovascular Research</i> , 2002, 55, 690-700.	1.8	74
81	IMproving Preclinical Assessment of Cardioprotective Therapies (IMPACT) criteria: guidelines of the EU-CARDIOPROTECTION COST Action. <i>Basic Research in Cardiology</i> , 2021, 116, 52.	2.5	73
82	The coronary circulation in cardioprotection: more than just one confounder. <i>Cardiovascular Research</i> , 2012, 94, 237-245.	1.8	72
83	Diastolic dysfunction in prediabetic male rats: Role of mitochondrial oxidative stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H927-H943.	1.5	72
84	Effect of hypercholesterolaemia on myocardial function, ischaemia-reperfusion injury and cardioprotection by preconditioning, postconditioning and remote conditioning. <i>British Journal of Pharmacology</i> , 2017, 174, 1555-1569.	2.7	71
85	Mitochondria - the target of myocardial conditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1215-H1231.	1.5	71
86	Influence of the antacid Maalox on the pharmacokinetics of capecitabine in cancer patients. <i>Cancer Chemotherapy and Pharmacology</i> , 1999, 43, 309-315.	1.1	69
87	Connexin 43 acts as a cytoprotective mediator of signal transduction by stimulating mitochondrial KATP channels in mouse cardiomyocytes. <i>Journal of Clinical Investigation</i> , 2010, 120, 1441-1453.	3.9	69
88	AP39, a mitochondria-targeting hydrogen sulfide ( $H_2S$ ) donor, protects against myocardial reperfusion injury independently of salvage kinase signalling. <i>British Journal of Pharmacology</i> , 2017, 174, 287-301.	2.7	69
89	Forest structure and woody plant species composition along a fire chronosequence in mixed pine-oak forest in the Sierra Madre Oriental, Northeast Mexico. <i>Forest Ecology and Management</i> , 2008, 256, 161-167.	1.4	68
90	Physiological and therapeutic regulation of PCSK9 activity in cardiovascular disease. <i>Basic Research in Cardiology</i> , 2017, 112, 32.	2.5	66

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91	Effects of air pollution particles (ultrafine and fine particulate matter) on mitochondrial function and oxidative stress – Implications for cardiovascular and neurodegenerative diseases. Archives of Biochemistry and Biophysics, 2020, 696, 108662.	1.4	66
92	No Involvement of Endogenous Nitric Oxide In Classical Ischemic Preconditioning in Swine. Journal of Molecular and Cellular Cardiology, 2000, 32, 725-733.	0.9	65
93	Formation of reactive oxygen species at increased contraction frequency in rat cardiomyocytes. Cardiovascular Research, 2006, 71, 374-382.	1.8	65
94	Connexin 43 and Mitochondria in Cardiovascular Health and Disease. Advances in Experimental Medicine and Biology, 2017, 982, 227-246.	0.8	65
95	TNF? in ischemia/reperfusion injury and heart failure. Basic Research in Cardiology, 2004, 99, 8-11.	2.5	64
96	Reduction of infarct size by gentle reperfusion without activation of reperfusion injury salvage kinases in pigs. Cardiovascular Research, 2010, 85, 110-117.	1.8	64
97	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
98	Beta-Blocker Therapy of Severe Congestive Heart Failure in Infants With Left to Right Shunts. American Journal of Cardiology, 1998, 81, 1366-1368.	0.7	63
99	Inhibition of the Na <sup>+</sup> /H <sup>+</sup> exchanger attenuates the deterioration of ventricular function during pacing-induced heart failure in rabbits. Cardiovascular Research, 2004, 63, 273-282.	1.8	63
100	Oxidative stress and inflammation contribute to traffic noise-induced vascular and cerebral dysfunction via uncoupling of nitric oxide synthases. Redox Biology, 2020, 34, 101506.	3.9	63
101	Tyramine kinetics and pressor sensitivity during monoamine oxidase inhibition by selegiline. Clinical Pharmacology and Therapeutics, 1989, 46, 528-536.	2.3	62
102	Nuclear-encoded mitochondrial proteins and their role in cardioprotection. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1286-1294.	1.9	61
103	S-nitrosation of mitochondrial connexin 43 regulates mitochondrial function. Basic Research in Cardiology, 2014, 109, 433.	2.5	61
104	Randomized trial of ticagrelor vs. aspirin in patients after coronary artery bypass grafting: the TiCAB trial. European Heart Journal, 2019, 40, 2432-2440.	1.0	61
105	The role of mitochondrial reactive oxygen species, NO and H <sub>2</sub> S in ischaemia/reperfusion injury and cardioprotection. Journal of Cellular and Molecular Medicine, 2020, 24, 6510-6522.	1.6	58
106	Intraischemic Preconditioning. Circulation Research, 1995, 76, 942-950.	2.0	58
107	Hibernating Myocardium: A Review. Journal of Molecular and Cellular Cardiology, 1996, 28, 2359-2372.	0.9	56
108	Inducible Nitric Oxide Synthase Expression and Cardiomyocyte Dysfunction During Sustained Moderate Ischemia in Pigs. Circulation Research, 2008, 103, 1120-1127.	2.0	56

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109	Mitochondria in Postconditioning. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 863-880.	2.5	56
110	New aspects of p66Shc in ischaemia reperfusion injury and other cardiovascular diseases. <i>British Journal of Pharmacology</i> , 2017, 174, 1690-1703.	2.7	56
111	Connexin 43 impacts on mitochondrial potassium uptake. <i>Frontiers in Pharmacology</i> , 2013, 4, 73.	1.6	55
112	Increased inducible nitric oxide synthase and arginase II expression in heart failure: no net nitrite/nitrate production and protein S-nitrosylation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H446-H453.	1.5	54
113	MicroRNA expression profile of human advanced coronary atherosclerotic plaques. <i>Scientific Reports</i> , 2018, 8, 7823.	1.6	54
114	Improving translational research in sex-specific effects of comorbidities and risk factors in ischaemic heart disease and cardioprotection: position paper and recommendations of the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2021, 117, 367-385.	1.8	53
115	Cholesterol diet leads to attenuation of ischemic preconditioning-induced cardiac protection: the role of connexin 43. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1907-H1913.	1.5	52
116	Nitrite in organ protection. <i>British Journal of Pharmacology</i> , 2014, 171, 1-11.	2.7	49
117	cAMP controls the restoration of endothelial barrier function after thrombin-induced hyperpermeability via Rac1 activation. <i>Physiological Reports</i> , 2014, 2, e12175.	0.7	49
118	Oxidized low-density lipoprotein (oxLDL) affects load-free cell shortening of cardiomyocytes in a proprotein convertase subtilisin/kexin 9 (PCSK9)-dependent way. <i>Basic Research in Cardiology</i> , 2017, 112, 63.	2.5	49
119	Hypoxia-induced endothelial barrier failure: role of RhoA, Rac1 and myosin light chain kinase. <i>Journal of Physiology</i> , 2013, 591, 461-473.	1.3	48
120	Mitochondrial ion channels as targets for cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 7102-7114.	1.6	48
121	Microdialysis-based analysis of interstitial NO in situ: NO synthase-independent NO formation during myocardial ischemia. <i>Cardiovascular Research</i> , 2007, 74, 46-55.	1.8	47
122	Pharmacological Intervention to Modulate HDL: What Do We Target?. <i>Frontiers in Pharmacology</i> , 2017, 8, 989.	1.6	47
123	PCSK9 targets important for lipid metabolism. <i>Clinical Research in Cardiology Supplements</i> , 2017, 12, 2-11.	2.0	46
124	Ageing, sex, and cardioprotection. <i>British Journal of Pharmacology</i> , 2020, 177, 5270-5286.	2.7	46
125	Glycine, a simple physiological compound protecting by yet puzzling mechanism(s) against ischaemia-induced reperfusion injury: current knowledge. <i>British Journal of Pharmacology</i> , 2012, 165, 2059-2072.	2.7	44
126	P66shc and its role in ischemic cardiovascular diseases. <i>Basic Research in Cardiology</i> , 2019, 114, 29.	2.5	44



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127	Inorganic phosphate content and free energy change of ATP hydrolysis in regional short-term hibernating myocardium. <i>Cardiovascular Research</i> , 1998, 39, 318-326.	1.8	43
128	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-H457.	1.5	43
129	New insights into the S-nitrosothiol-ascorbate reaction. The formation of nitroxyl. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1954.	1.5	43
130	Expression of calcium regulatory proteins in short-term hibernation and stunning in the in situ porcine heart. <i>Cardiovascular Research</i> , 1998, 37, 606-617.	1.8	42
131	NOX4 in Mitochondria: Yeast Two-Hybrid-Based Interaction with Complex I Without Relevance for Basal Reactive Oxygen Species?. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 1106-1112.	2.5	42
132	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on "New frontiers in cardiovascular research". <i>Basic Research in Cardiology</i> , 2016, 111, 69.	2.5	41
133	Minimal $\alpha_1$ - and $\alpha_2$ -adrenoceptor-mediated coronary vasoconstriction in the anaesthetized swine. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1990, 342, 422-8.	1.4	40
134	Pleiotropic effects of statins. <i>Journal of the American College of Cardiology</i> , 2005, 45, 1292-1294.	1.2	40
135	Association of bilirubin with coronary artery calcification and cardiovascular events in the general population without known liver disease: the Heinz Nixdorf Recall study. <i>Clinical Research in Cardiology</i> , 2014, 103, 647-653.	1.5	38
136	Influence of mental stress and environmental toxins on circadian clocks: Implications for redox regulation of the heart and cardioprotection. <i>British Journal of Pharmacology</i> , 2020, 177, 5393-5412.	2.7	37
137	Perfusion-contraction match and mismatch. <i>Basic Research in Cardiology</i> , 2001, 96, 1-10.	2.5	35
138	Inhibition of AP-1 signaling by JDP2 overexpression protects cardiomyocytes against hypertrophy and apoptosis induction. <i>Cardiovascular Research</i> , 2013, 99, 121-128.	1.8	35
139	Coronary microembolization. <i>Progress in Cardiovascular Diseases</i> , 2001, 44, 217-230.	1.6	34
140	Connexin43 and Ischemic Preconditioning. <i>Cardiovascular Research</i> , 2006, 42, 213-227.		34
141	Regulation and Role of the Presynaptic and Myocardial Na <sup>+</sup> /H <sup>+</sup> Exchanger NHE1: Effects on the Sympathetic Nervous System in Heart Failure. <i>Cardiovascular Drug Reviews</i> , 2007, 25, 123-131.	4.4	34
142	Mechanisms involved in postconditioning protection of cardiomyocytes against acute reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 58, 209-216.	0.9	34
143	Cardiomyocyte ageing and cardioprotection: consensus document from the ESC working groups cell biology of the heart and myocardial function. <i>Cardiovascular Research</i> , 2020, 116, 1835-1849.	1.8	34
144	"Myocardial stunning". <i>Cardiovascular Research</i> , 1998, 38, 549-558.	1.8	33

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145	Specific Mechanisms Underlying Right Heart Failure: The Missing Upregulation of Superoxide Dismutase-2 and Its Decisive Role in Antioxidative Defense. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 1220-1232.	2.5	33
146	Connexin 43 and ischemic preconditioning: effects of age and disease. <i>Experimental Gerontology</i> , 2006, 41, 485-488.	1.2	32
147	Interaction between Connexin 43 and nitric oxide synthase in mice heart mitochondria. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 815-825.	1.6	31
148	RyR2 regulates Cx43 hemichannel intracellular Ca <sup>2+</sup> -dependent activation in cardiomyocytes. <i>Cardiovascular Research</i> , 2021, 117, 123-136.	1.8	31
149	Involvement of endogenous prostaglandins in ischemic preconditioning in pigs. <i>Cardiovascular Research</i> , 2002, 55, 626-632.	1.8	30
150	Prevention of the ischemia-induced decrease in mitochondrial Tom20 content by ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 426-430.	0.9	30
151	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.	1.8	30
152	A State Space Model for Berlin House Prices: Estimation and Economic Interpretation. <i>Journal of Real Estate Finance and Economics</i> , 2004, 28, 37-57.	0.8	29
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