

Rainer Schulz

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4342774/rainer-schulz-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

249
papers

17,993
citations

68
h-index

127
g-index

279
ext. papers

20,522
ext. citations

8.1
avg. IF

6.68
L-index

#	Paper	IF	Citations
249	Redox regulatory changes of circadian rhythm by the environmental risk factors traffic noise and air pollution.. <i>Antioxidants and Redox Signaling</i> , 2022 ,	8.4	3
248	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 ,	9.9	3
247	Somatostatin and Its Receptors in Myocardial Ischemia/Reperfusion Injury and Cardioprotection. <i>Frontiers in Pharmacology</i> , 2021 , 12, 663655	5.6	0
246	Cardiomyocytes-specific deletion of monoamine oxidase B reduces irreversible myocardial ischemia/reperfusion injury. <i>Free Radical Biology and Medicine</i> , 2021 , 165, 14-23	7.8	7
245	Influence of cardiometabolic comorbidities on myocardial function, infarction, and cardioprotection: Role of cardiac redox signaling. <i>Free Radical Biology and Medicine</i> , 2021 , 166, 33-52	7.8	9
244	Vascular and Cardiac Oxidative Stress and Inflammation as Targets for Cardioprotection. <i>Current Pharmaceutical Design</i> , 2021 , 27, 2112-2130	3.3	7
243	AIM2-driven inflammasome activation in heart failure. <i>Cardiovascular Research</i> , 2021 , 117, 2639-2651	9.9	2
242	PI3K as Mediator of Apoptosis and Contractile Dysfunction in TGFβ-Stimulated Cardiomyocytes. <i>Biology</i> , 2021 , 10,	4.9	1
241	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	9.9	24
240	RyR2 regulates Cx43 hemichannel intracellular Ca ²⁺ -dependent activation in cardiomyocytes. <i>Cardiovascular Research</i> , 2021 , 117, 123-136	9.9	13
239	Purinergic Regulation of Endothelial Barrier Function. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
238	Impact of PCSK9 on CTRP9-Induced Metabolic Effects in Adult Rat Cardiomyocytes. <i>Frontiers in Physiology</i> , 2021 , 12, 593862	4.6	4
237	Thiol-based redox-active proteins as cardioprotective therapeutic agents in cardiovascular diseases. <i>Basic Research in Cardiology</i> , 2021 , 116, 44	11.8	6
236	IMproving Preclinical Assessment of Cardioprotective Therapies (IMPACT) criteria: guidelines of the EU-CARDIOPROTECTION COST Action. <i>Basic Research in Cardiology</i> , 2021 , 116, 52	11.8	11
235	Molecular Network Approach Reveals as a Central Target of Cardiac ProtectomiRs. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
234	Matrix Metalloproteinases Repress Hypertrophic Growth in Cardiac Myocytes. <i>Cardiovascular Drugs and Therapy</i> , 2021 , 35, 353-365	3.9	2
233	Importance of Cx43 for Right Ventricular Function. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5

232	Lack of Contribution of p66shc to Pressure Overload-Induced Right Heart Hypertrophy. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
231	Genetic Deletion of p66shc and/or Cyclophilin D Results in Decreased Pulmonary Vascular Tone. <i>Cardiovascular Research</i> , 2020 ,	9.9	2
230	Autocrine effects of PCSK9 on cardiomyocytes. <i>Basic Research in Cardiology</i> , 2020 , 115, 65	11.8	4
229	CTRP9 Mediates Protective Effects in Cardiomyocytes via AMPK- and Adiponectin Receptor-Mediated Induction of Anti-Oxidant Response. <i>Cells</i> , 2020 , 9,	7.9	13
228	Induction of Proteasome Subunit Low Molecular Weight Protein (LMP)-2 Is Required to Induce Active Remodeling in Adult Rat Ventricular Cardiomyocytes. <i>Medical Sciences (Basel, Switzerland)</i> , 2020 , 8,	3.3	1
227	Oxidative stress and inflammation contribute to traffic noise-induced vascular and cerebral dysfunction via uncoupling of nitric oxide synthases. <i>Redox Biology</i> , 2020 , 34, 101506	11.3	27
226	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	9.9	15
225	The role of mitochondrial reactive oxygen species, NO and H ₂ S in ischaemia/reperfusion injury and cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 6510-6522	5.6	39
224	Swiprosin-1/EFhD-2 Expression in Cardiac Remodeling and Post-Infarct Repair: Effect of Ischemic Conditioning. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
223	Mitochondrial ion channels as targets for cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 7102-7114	5.6	27
222	Hidden Cardiotoxicity of Rofecoxib Can be Revealed in Experimental Models of Ischemia/Reperfusion. <i>Cells</i> , 2020 , 9,	7.9	8
221	Cardioprotection in right heart failure. <i>British Journal of Pharmacology</i> , 2020 , 177, 5413-5431	8.6	4
220	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	8.6	23
219	Ageing, sex, and cardioprotection. <i>British Journal of Pharmacology</i> , 2020 , 177, 5270-5286	8.6	18
218	Differential effects of right and left heart failure on skeletal muscle in rats. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020 , 11, 1830-1849	10.3	2
217	Structural, Pro-Inflammatory and Calcium Handling Remodeling Underlies Spontaneous Onset of Paroxysmal Atrial Fibrillation in JDP2-Overexpressing Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
216	Effects of air pollution particles (ultrafine and fine particulate matter) on mitochondrial function and oxidative stress - Implications for cardiovascular and neurodegenerative diseases. <i>Archives of Biochemistry and Biophysics</i> , 2020 , 696, 108662	4.1	22
215	Cardiac miRNA Expression and their mRNA Targets in a Rat Model of Prediabetes. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5

214	Transcriptional Alterations by Ischaemic Postconditioning in a Pig Infarction Model: Impact on Microvascular Protection. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
213	P66shc and its role in ischemic cardiovascular diseases. <i>Basic Research in Cardiology</i> , 2019 , 114, 29	11.8	23
212	Investigating and re-evaluating the role of glycogen synthase kinase 3 beta kinase as a molecular target for cardioprotection by using novel pharmacological inhibitors. <i>Cardiovascular Research</i> , 2019 , 115, 1228-1243	9.9	17
211	Immune cells as targets for cardioprotection: new players and novel therapeutic opportunities. <i>Cardiovascular Research</i> , 2019 , 115, 1117-1130	9.9	77
210	Protection against pressure overload-induced right heart failure by uncoupling protein 2 silencing. <i>Cardiovascular Research</i> , 2019 , 115, 1217-1227	9.9	12
209	Definition of hidden drug cardiotoxicity: paradigm change in cardiac safety testing and its clinical implications. <i>European Heart Journal</i> , 2019 , 40, 1771-1777	9.5	49
208	Randomized trial of ticagrelor vs. aspirin in patients after coronary artery bypass grafting: the TiCAB trial. <i>European Heart Journal</i> , 2019 , 40, 2432-2440	9.5	28
207	Professor David Garcia-Dorado 1953-2019. <i>European Heart Journal</i> , 2019 , 40, 3670-3671	9.5	
206	Professor David Garcia-Dorado 1953-2019 Obituary. <i>Cardiovascular Research</i> , 2019 , 115, 1933-1934	9.9	
205	The coronary circulation in acute myocardial ischaemia/reperfusion injury: a target for cardioprotection. <i>Cardiovascular Research</i> , 2019 , 115, 1143-1155	9.9	77
204	Multitarget Strategies to Reduce Myocardial Ischemia/Reperfusion Injury: JACC Review Topic of the Week. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 89-99	15.1	292
203	Connexins in cardiac ischemia. <i>Current Opinion in Physiology</i> , 2018 , 2, 123-128	2.6	5
202	Nagarse treatment of cardiac subsarcolemmal and interfibrillar mitochondria leads to artefacts in mitochondrial protein quantification. <i>Journal of Pharmacological and Toxicological Methods</i> , 2018 , 91, 50-58	1.7	9
201	Phosphoinositide 3-Kinase Gamma Inhibition Protects From Anthracycline Cardiotoxicity and Reduces Tumor Growth. <i>Circulation</i> , 2018 , 138, 696-711	16.7	83
200	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	9.9	198
199	Epigenetic modulation of vascular diseases: Assessing the evidence and exploring the opportunities. <i>Vascular Pharmacology</i> , 2018 ,	5.9	8
198	Mitochondria "THE" target of myocardial conditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1215-H1231	5.2	45
197	Practical guidelines for rigor and reproducibility in preclinical and clinical studies on cardioprotection. <i>Basic Research in Cardiology</i> , 2018 , 113, 39	11.8	224

196	Review on Chamber-Specific Differences in Right and Left Heart Reactive Oxygen Species Handling. <i>Frontiers in Physiology</i> , 2018 , 9, 1799	4.6	11
195	MicroRNA expression profile of human advanced coronary atherosclerotic plaques. <i>Scientific Reports</i> , 2018 , 8, 7823	4.9	38
194	JDP2 overexpression provokes cardiac dysfunction in mice. <i>Scientific Reports</i> , 2018 , 8, 7647	4.9	10
193	Selegiline reduces adiposity induced by high-fat, high-sucrose diet in male rats. <i>British Journal of Pharmacology</i> , 2018 , 175, 3713-3726	8.6	13
192	New aspects of p66Shc in ischaemia reperfusion injury and other cardiovascular diseases. <i>British Journal of Pharmacology</i> , 2017 , 174, 1690-1703	8.6	41
191	Novel putative pharmacological therapies to protect the right ventricle in pulmonary hypertension: a review of current literature. <i>British Journal of Pharmacology</i> , 2017 , 174, 497-511	8.6	11
190	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	8.6	49
189	PCSK9 targets important for lipid metabolism. <i>Clinical Research in Cardiology Supplements</i> , 2017 , 12, 2-11	3.1	28
188	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017 , 8, 349-369	10.3	160
187	Physiological and therapeutic regulation of PCSK9 activity in cardiovascular disease. <i>Basic Research in Cardiology</i> , 2017 , 112, 32	11.8	45
186	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. <i>Cardiovascular Research</i> , 2017 , 113, 725-736	9.9	85
185	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	11.3	185
184	Connexin 43 and Mitochondria in Cardiovascular Health and Disease. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 982, 227-246	3.6	49
183	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	9.9	206
182	Mitochondrial Cx43 hemichannels contribute to mitochondrial calcium entry and cell death in the heart. <i>Basic Research in Cardiology</i> , 2017 , 112, 27	11.8	76
181	The gap junction modifier ZP1609 decreases cardiomyocyte hypercontracture following ischaemia/reperfusion independent from mitochondrial connexin 43. <i>British Journal of Pharmacology</i> , 2017 , 174, 2060-2073	8.6	23
180	AP39, a mitochondria-targeting hydrogen sulfide (H ₂ S) donor, protects against myocardial reperfusion injury independently of salvage kinase signalling. <i>British Journal of Pharmacology</i> , 2017 , 174, 287-301	8.6	52
179	Pharmacological Intervention to Modulate HDL: What Do We Target?. <i>Frontiers in Pharmacology</i> , 2017 , 8, 989	5.6	25

178	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	11.8	37
177	Connexins in Cardiovascular and Neurovascular Health and Disease: Pharmacological Implications. <i>Pharmacological Reviews</i> , 2017 , 69, 396-478	22.5	134
176	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. <i>Cardiovascular Research</i> , 2017 , 113, 1418-1419	9.9	9
175	In vivo MRI and ex vivo histological assessment of the cardioprotection induced by ischemic preconditioning, postconditioning and remote conditioning in a closed-chest porcine model of reperfused acute myocardial infarction: importance of microvasculature. <i>Journal of Translational Medicine</i> , 2017 , 15, 67	8.5	24
174	Effect of nitric oxide deficiency on the pulmonary PTHrP system. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 96-106	5.6	3
173	Adverse Effects on β Adrenergic Receptor Coupling: Ischemic Postconditioning Failed to Preserve Long-Term Cardiac Function. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	7
172	Effect of ticagrelor on endothelial calcium signalling and barrier function. <i>Thrombosis and Haemostasis</i> , 2017 , 117, 371-381	7	10
171	Identification of microRNAs as potential cellular monocytic biomarkers in the early phase of myocardial infarction: a pilot study. <i>Scientific Reports</i> , 2017 , 7, 15974	4.9	12
170	Lack of Contribution of p66shc and Its Mitochondrial Translocation to Ischemia-Reperfusion Injury and Cardioprotection by Ischemic Preconditioning. <i>Frontiers in Physiology</i> , 2017 , 8, 733	4.6	16
169	Endothelial Mesenchymal Transition in Hypoxic Microvascular Endothelial Cells and Paracrine Induction of Cardiomyocyte Apoptosis Are Mediated via TGF β /SMAD Signaling. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	22
168	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	11.8	36
167	Oxidative Stress and Nitrosative Stress 2016 , 267-278		0
166	A randomized, parallel group, double-blind study of ticagrelor compared with aspirin for prevention of vascular events in patients undergoing coronary artery bypass graft operation: Rationale and design of the Ticagrelor in CABG (TiCAB) trial: An Investigator-Initiated trial. <i>American Heart Journal</i> , 2016 , 179, 69-76	4.9	12
165	Effects of P2Y ₁₂ receptor antagonists beyond platelet inhibition--comparison of ticagrelor with thienopyridines. <i>British Journal of Pharmacology</i> , 2016 , 173, 1163-78	8.6	66
164	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, 1789-98	9.5	163
163	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	5.2	54
162	Connexin 43 is an emerging therapeutic target in ischemia/reperfusion injury, cardioprotection and neuroprotection. <i>Pharmacology & Therapeutics</i> , 2015 , 153, 90-106	13.9	146
161	Platelet inhibitors influence cardioprotection: importance in preclinical study design: reply. <i>Cardiovascular Research</i> , 2015 , 106, 8	9.9	1

160	Molecular and cellular function of the proprotein convertase subtilisin/kexin type 9 (PCSK9). <i>Basic Research in Cardiology</i> , 2015 , 110, 4	11.8	68
159	Ischemia and reperfusion related myocardial inflammation: A network of cells and mediators targeting the cardiomyocyte. <i>IUBMB Life</i> , 2015 , 67, 110-9	4.7	21
158	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, 1220-32	8.4	21
157	Compound C inhibits in vitro angiogenesis and ameliorates thrombin-induced endothelial barrier failure. <i>European Journal of Pharmacology</i> , 2015 , 768, 165-72	5.3	6
156	The role of gasotransmitters NO, H ₂ S and CO in myocardial ischaemia/reperfusion injury and cardioprotection by preconditioning, postconditioning and remote conditioning. <i>British Journal of Pharmacology</i> , 2015 , 172, 1587-606	8.6	142
155	Mechanism and consequences of the shift in cardiac arginine metabolism following ischaemia and reperfusion in rats. <i>Thrombosis and Haemostasis</i> , 2015 , 113, 482-93	7	17
154	Interaction between connexin 43 and nitric oxide synthase in mice heart mitochondria. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 815-25	5.6	27
153	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, 1106-12	8.4	35
152	Novel therapeutic strategies for cardioprotection. <i>Pharmacology & Therapeutics</i> , 2014 , 144, 60-70	13.9	57
151	Nitrite in organ protection. <i>British Journal of Pharmacology</i> , 2014 , 171, 1-11	8.6	44
150	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, 1142-74	22.5	424
149	S-nitrosation of mitochondrial connexin 43 regulates mitochondrial function. <i>Basic Research in Cardiology</i> , 2014 , 109, 433	11.8	51
148	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, 647-53	6.1	31
147	Adenosine-mediated effects of ticagrelor: evidence and potential clinical relevance. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2503-2509	15.1	221
146	cAMP controls the restoration of endothelial barrier function after thrombin-induced hyperpermeability via Rac1 activation. <i>Physiological Reports</i> , 2014 , 2, e12175	2.6	34
145	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	9.9	108
144	Impact of caloric restriction on myocardial ischaemia/reperfusion injury and new therapeutic options to mimic its effects. <i>British Journal of Pharmacology</i> , 2014 , 171, 2964-92	8.6	20
143	The cellular prion protein counteracts cardiac oxidative stress. <i>Cardiovascular Research</i> , 2014 , 104, 93-103.	10.9	21

142	Nucleoside triphosphates inhibit ADP, collagen, and epinephrine-induced platelet aggregation: role of P2Y ₁ and P2Y ₁₂ receptors. <i>Thrombosis Research</i> , 2013 , 132, 548-57	8.2	10
141	Mechanisms involved in postconditioning protection of cardiomyocytes against acute reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 58, 209-16	5.8	30
140	Mesenteric ischemia-reperfusion injury: clearly improved hemodynamics but only minor protection of the rat small intestine by (sub)therapeutic heparin sodium and enoxaparin doses. <i>Journal of Surgical Research</i> , 2013 , 179, e57-69	2.5	8
139	Hypoxia-reoxygenation-induced endothelial barrier failure: role of RhoA, Rac1 and myosin light chain kinase. <i>Journal of Physiology</i> , 2013 , 591, 461-73	3.9	37
138	Selective inhibition of Cx43 hemichannels by Gap19 and its impact on myocardial ischemia/reperfusion injury. <i>Basic Research in Cardiology</i> , 2013 , 108, 309	11.8	172
137	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	9.9	172
136	Inhibition of AP-1 signaling by JDP2 overexpression protects cardiomyocytes against hypertrophy and apoptosis induction. <i>Cardiovascular Research</i> , 2013 , 99, 121-8	9.9	29
135	Monoamine oxidases are mediators of endothelial dysfunction in the mouse aorta. <i>Hypertension</i> , 2013 , 62, 140-6	8.5	63
134	The STAT3 inhibitor stattic impairs cardiomyocyte mitochondrial function through increased reactive oxygen species formation. <i>Current Pharmaceutical Design</i> , 2013 , 19, 6890-5	3.3	61
133	Connexin 43 impacts on mitochondrial potassium uptake. <i>Frontiers in Pharmacology</i> , 2013 , 4, 73	5.6	43
132	Old and new biomarkers of oxidative stress in heart failure. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2012 , 9, e189-e198		4
131	Glycine, a simple physiological compound protecting by yet puzzling mechanism(s) against ischaemia-reperfusion injury: current knowledge. <i>British Journal of Pharmacology</i> , 2012 , 165, 2059-72	8.6	30
130	The coronary circulation in cardioprotection: more than just one confounder. <i>Cardiovascular Research</i> , 2012 , 94, 237-45	9.9	58
129	Mitochondrial connexin 43 impacts on respiratory complex I activity and mitochondrial oxygen consumption. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 1649-55	5.6	85
128	Cardiomyocyte-specific deletion of survivin causes global cardiac conduction defects. <i>Basic Research in Cardiology</i> , 2012 , 107, 299	11.8	9
127	Pleiotropic effects of dronedarone on ischemia/reperfusion injury in heart and brain. <i>Cardiovascular Drugs and Therapy</i> , 2012 , 26, 257-63	3.9	3
126	Glycogen synthase kinase 3 β transfers cytoprotective signaling through connexin 43 onto mitochondrial ATP-sensitive K ⁺ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E242-51	11.5	22
125	Mitochondria in postconditioning. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 863-80	8.4	50

124	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, H1907-13	5.2	47
123	The in-situ pig heart with regional ischemia/reperfusion - ready for translation. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 951-63	5.8	75
122	Cardioprotection by ivabradine through heart rate reduction and beyond. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2011 , 16, 281-4	2.6	13
121	Pharmacological modulation of connexin-formed channels in cardiac pathophysiology. <i>British Journal of Pharmacology</i> , 2011 , 163, 469-83	8.6	66
120	Nuclear-encoded mitochondrial proteins and their role in cardioprotection. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 1286-94	4.9	46
119	Preface to mitochondria and cardioprotection. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011 , 1813, 1261-2	4.9	2
118	TNF α in myocardial ischemia/reperfusion, remodeling and heart failure. <i>Heart Failure Reviews</i> , 2011 , 16, 49-69	5	175
117	Reduction of cerebral infarct size by dronedarone. <i>Cardiovascular Drugs and Therapy</i> , 2011 , 25, 523-9	3.9	11
116	Vasoconstrictor potential of coronary aspirate from patients undergoing stenting of saphenous vein aortocoronary bypass grafts and its pharmacological attenuation. <i>Circulation Research</i> , 2011 , 108, 344-52	15.7	75
115	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, 1441-53	15.9	64
114	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, H446-53	5.2	43
113	Reduction of infarct size by gentle reperfusion without activation of reperfusion injury salvage kinases in pigs. <i>Cardiovascular Research</i> , 2010 , 85, 110-7	9.9	56
112	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, 406-23	9.9	410
111	Inhibition of permeability transition pore opening by mitochondrial STAT3 and its role in myocardial ischemia/reperfusion. <i>Basic Research in Cardiology</i> , 2010 , 105, 771-85	11.8	291
110	Cyclosporine A at reperfusion reduces infarct size in pigs. <i>Cardiovascular Drugs and Therapy</i> , 2010 , 24, 85-7	3.9	80
109	TNF α in atherosclerosis, myocardial ischemia/reperfusion and heart failure. <i>Pharmacology & Therapeutics</i> , 2010 , 127, 295-314	13.9	303
108	Loss of cardioprotection with ageing. <i>Cardiovascular Research</i> , 2009 , 83, 247-61	9.9	250
107	Connexin43 in cardiomyocyte mitochondria contributes to mitochondrial potassium uptake. <i>Cardiovascular Research</i> , 2009 , 83, 747-56	9.9	107

106	Coronary microembolization: from bedside to bench and back to bedside. <i>Circulation</i> , 2009 , 120, 1822-36	6.7	310
105	Presence of connexin 43 in subsarcolemmal, but not in interfibrillar cardiomyocyte mitochondria. <i>Basic Research in Cardiology</i> , 2009 , 104, 141-7	11.8	133
104	Ischemic postconditioning: experimental models and protocol algorithms. <i>Basic Research in Cardiology</i> , 2009 , 104, 469-83	11.8	172
103	Ischemic postconditioning in pigs: no causal role for RISK activation. <i>Circulation Research</i> , 2009 , 104, 15-8	15.7	220
102	New insights into the S-nitrosothiol-ascorbate reaction. The formation of nitroxyl. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 1954-62	3.9	38
101	The myocardial JAK/STAT pathway: from protection to failure 2008 , 120, 172-85		259
100	TNFalpha in myocardial ischemia/reperfusion: damage vs. protection. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 712-4	5.8	15
99	Forest structure and woody plant species composition along a fire chronosequence in mixed pineoak forest in the Sierra Madre Oriental, Northeast Mexico. <i>Forest Ecology and Management</i> , 2008 , 256, 161-167	3.9	45
98	Extracellular adenosine attenuates left ventricular hypertrophy through its impact on the protein kinase and phosphatase interaction. <i>Hypertension</i> , 2008 , 51, 1474-5	8.5	2
97	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, 2265-75	9.5	112
96	Cardioprotection by ischemic postconditioning is lost in aged and STAT3-deficient mice. <i>Circulation Research</i> , 2008 , 102, 131-5	15.7	225
95	No impact of protein phosphatases on connexin 43 phosphorylation in ischemic preconditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H2106-12	5.2	24
94	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
93	Cardioprotection: nitric oxide, protein kinases, and mitochondria. <i>Circulation</i> , 2008 , 118, 1915-9	16.7	359
92	Pathophysiology of myocardial infarction: protection by ischemic pre- and postconditioning. <i>Herz</i> , 2008 , 33, 88-100	2.6	89
91	Reduced calcium responsiveness characterizes contractile dysfunction following coronary microembolization. <i>Basic Research in Cardiology</i> , 2008 , 103, 552-9	11.8	17
90	Regulation and role of the presynaptic and myocardial Na ⁺ /H ⁺ exchanger NHE1: effects on the sympathetic nervous system in heart failure. <i>Cardiovascular Drug Reviews</i> , 2007 , 25, 123-31		27
89	Connexin 43 in ischemic pre- and postconditioning. <i>Heart Failure Reviews</i> , 2007 , 12, 261-6	5	76

88	Loss of ischemic preconditioning ^B 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, H1764-9	5.2	143
87	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
86	The role of heart rate and the benefits of heart rate reduction in acute myocardial ischaemia. <i>Country Review Ukraine</i> , 2007 , 9, F8-F14		9
85	Bidirectional role of tumor necrosis factor-alpha in coronary microembolization: progressive contractile dysfunction versus delayed protection against infarction. <i>Circulation Research</i> , 2007 , 100, 140-6	15.7	131
84	Mitochondrial respiration and membrane potential after low-flow ischemia are not affected by ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 610-5	5.8	13
83	A cathepsin D-cleaved 16 kDa form of prolactin mediates postpartum cardiomyopathy. <i>Cell</i> , 2007 , 128, 589-600	56.2	586
82	The impact of subarachnoid hemorrhage on regional cerebral blood flow and large-vessel diameter in the canine model of chronic vasospasm. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2007 , 16, 45-51	2.8	5
81	Interaction of cardiovascular risk factors with myocardial ischemia/reperfusion injury, preconditioning, and postconditioning. <i>Pharmacological Reviews</i> , 2007 , 59, 418-58	22.5	567
80	Connexin 43 and ischemic preconditioning: effects of age and disease. <i>Experimental Gerontology</i> , 2006 , 41, 485-8	4.5	26
79	Positive effects of nitric oxide on left ventricular function in humans. <i>European Heart Journal</i> , 2006 , 27, 1699-705	9.5	81
78	Oxidative modification of tropomyosin and myocardial dysfunction following coronary microembolization. <i>European Heart Journal</i> , 2006 , 27, 875-81	9.5	131
77	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
76	Formation of reactive oxygen species at increased contraction frequency in rat cardiomyocytes. <i>Cardiovascular Research</i> , 2006 , 71, 374-82	9.9	50
75	Translocation of connexin 43 to the inner mitochondrial membrane of cardiomyocytes through the heat shock protein 90-dependent TOM pathway and its importance for cardioprotection. <i>Circulation Research</i> , 2006 , 99, 93-101	15.7	195
74	High-density lipoproteins and their constituent, sphingosine-1-phosphate, directly protect the heart against ischemia/reperfusion injury in vivo via the S1P3 lysophospholipid receptor. <i>Circulation</i> , 2006 , 114, 1403-9	16.7	324
73	ATP release from activated neutrophils occurs via connexin 43 and modulates adenosine-dependent endothelial cell function. <i>Circulation Research</i> , 2006 , 99, 1100-8	15.7	282
72	Connexin43 and ischemic preconditioning. <i>Advances in Cardiology</i> , 2006 , 42, 213-227		32
71	Red blood cells express a functional endothelial nitric oxide synthase. <i>Blood</i> , 2006 , 107, 2943-51	2.2	414

70	Reduction of cerebral infarct size by the AT1-receptor blocker candesartan, the HMG-CoA reductase inhibitor rosuvastatin and their combination. An experimental study in rats. <i>Neuroscience Letters</i> , 2006 , 406, 92-6	3.3	23
69	Prevention of the ischemia-induced decrease in mitochondrial Tom20 content by ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 426-30	5.8	27
68	Angiotensin II type 1 receptors in cerebral ischaemia-reperfusion: initiation of inflammation. <i>Journal of Hypertension</i> , 2006 , 24, S123-9	1.9	16
67	Inhibition of Na ⁺ /H ⁺ -exchanger with sabiporide attenuates the downregulation and uncoupling of the myocardial beta-adrenoceptor system in failing rabbit hearts. <i>British Journal of Pharmacology</i> , 2006 , 148, 137-46	8.6	11
66	No loss of cardioprotection by postconditioning in connexin 43-deficient mice. <i>Basic Research in Cardiology</i> , 2006 , 101, 354-6	11.8	89
65	Transactions that did not happen and their influence on prices. <i>Journal of Economic Behavior and Organization</i> , 2005 , 56, 567-591	1.6	16
64	Preinfarction angina: no interference of coronary microembolization with acute ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2005 , 39, 355-61	5.8	15
63	Connexin 43 in cardiomyocyte mitochondria and its increase by ischemic preconditioning. <i>Cardiovascular Research</i> , 2005 , 67, 234-44	9.9	230
62	Making profits in wartime: corporate profits, inequality, and GDP in Germany during the First World War1. <i>Economic History Review</i> , 2005 , 58, 34-56	1.7	12
61	Regional differences of myocardial infarct development and ischemic preconditioning. <i>Basic Research in Cardiology</i> , 2005 , 100, 48-56	11.8	12
60	Myocardial hibernation: a delicate balance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H984-99	5.2	149
59	Impaired resting perfusion in viable myocardium distal to chronic coronary stenosis in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H2588-93	5.2	14
58	Impairment of diazoxide-induced formation of reactive oxygen species and loss of cardioprotection in connexin 43 deficient mice. <i>Circulation Research</i> , 2005 , 97, 583-6	15.7	201
57	Overview of contemporary reperfusion strategies in acute ST-elevation myocardial infarction. <i>Expert Review of Cardiovascular Therapy</i> , 2005 , 3, 667-80	2.5	
56	Nitric oxide in myocardial ischemia/reperfusion injury. <i>Cardiovascular Research</i> , 2004 , 61, 402-13	9.9	333
55	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, 187-95	15.7	316
54	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, 21779-86	5.4	63
53	Glucocorticoid treatment prevents progressive myocardial dysfunction resulting from experimental coronary microembolization. <i>Circulation</i> , 2004 , 109, 2337-42	16.7	72

52	Connexin 43 and ischemic preconditioning. <i>Cardiovascular Research</i> , 2004 , 62, 335-44	9.9	68
51	Chronic treatment with fluvastatin improves smooth muscle dilatory function in genetically determined hyperlipoproteinemia. <i>Journal of Cardiovascular Pharmacology</i> , 2004 , 43, 183-90	3.1	4
50	Inhibition of the Na ⁺ /H ⁺ exchanger attenuates the deterioration of ventricular function during pacing-induced heart failure in rabbits. <i>Cardiovascular Research</i> , 2004 , 63, 273-82	9.9	54
49	Coronary microembolization does not induce acute preconditioning against infarction in pigs-the role of adenosine. <i>Cardiovascular Research</i> , 2004 , 63, 313-22	9.9	22
48	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	1.1	19
47	TNFalpha in ischemia/reperfusion injury and heart failure. <i>Basic Research in Cardiology</i> , 2004 , 99, 8-11	11.8	59
46	Coronary microembolization. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 37, 23-31	5.8	73
45	Plasma nitrite reflects constitutive nitric oxide synthase activity in mammals. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 790-6	7.8	468
44	Activation of ATP-dependent potassium channels is a trigger but not a mediator of ischaemic preconditioning in pigs. <i>British Journal of Pharmacology</i> , 2003 , 139, 65-72	8.6	15
43	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
42	Hibernating myocardium: new answers, still more questions!. <i>Circulation Research</i> , 2002 , 91, 863-5	15.7	13
41	Preprocedural statin medication reduces the extent of periprocedural non-Q-wave myocardial infarction. <i>Circulation</i> , 2002 , 106, 2180-3	16.7	141
40	Myocardial dysfunction with coronary microembolization: signal transduction through a sequence of nitric oxide, tumor necrosis factor-alpha, and sphingosine. <i>Circulation Research</i> , 2002 , 90, 807-13	15.7	166
39	p38 MAP kinase is a mediator of ischemic preconditioning in pigs. <i>Cardiovascular Research</i> , 2002 , 55, 690-700	9.9	57
38	Involvement of endogenous prostaglandins in ischemic preconditioning in pigs. <i>Cardiovascular Research</i> , 2002 , 55, 626-32	9.9	23
37	Coronary microembolization: the role of TNF-alpha in contractile dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2002 , 34, 51-62	5.8	161
36	Perfusion-contraction match and mismatch. <i>Basic Research in Cardiology</i> , 2001 , 96, 1-10	11.8	28
35	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. <i>American Journal of Hematology</i> , 2001 , 66, 245-51	7.1	67

34	Balance and imbalance of regional myocardial contractile function and blood flow. <i>Clinical Research in Cardiology</i> , 2001 , 90, 964-9		6
33	Coronary microembolization. <i>Progress in Cardiovascular Diseases</i> , 2001 , 44, 217-30	8.5	33
32	The biology of myocardial hibernation. <i>Trends in Cardiovascular Medicine</i> , 2000 , 10, 108-14	6.9	19
31	X-ray densitometry for the measurement of regional myocardial perfusion. <i>Basic Research in Cardiology</i> , 2000 , 95, 261-70	11.8	9
30	No involvement of endogenous nitric oxide in classical ischemic preconditioning in swine. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 725-33	5.8	59
29	The stress-responsive MAP kinase p38 is activated by low-flow ischemia in the in situ porcine heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 1787-94	5.8	21
28	Effectiveness of low dose captopril versus propranolol therapy in infants with severe congestive failure due to left-to-right shunts. <i>International Journal of Cardiology</i> , 2000 , 76, 227-33	3.2	19
27	The effect of bosentan on the pharmacokinetics of digoxin in healthy male subjects. <i>British Journal of Clinical Pharmacology</i> , 1999 , 47, 701-6	3.8	22
26	Effects of verapamil and mibefradil on regional blood flow and function in normal and ischemic myocardium. <i>Cardiovascular Drugs and Therapy</i> , 1999 , 13, 275-6	3.9	1
25	Influence of the antacid Maalox on the pharmacokinetics of capecitabine in cancer patients. <i>Cancer Chemotherapy and Pharmacology</i> , 1999 , 43, 309-15	3.5	57
24	Quantification of cardioprotective gene expression in porcine short-term hibernating myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 1999 , 31, 147-58	5.8	9
23	Features of short-term myocardial hibernation 1998 , 186, 185-193		8
22	Beta-blocker therapy of severe congestive heart failure in infants with left to right shunts. <i>American Journal of Cardiology</i> , 1998 , 81, 1366-8	3	46
21	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, 1787-96	15.1	158
20	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	5.8	129
19	Impact of resting and ischemic blood flow on infarct probability in ischemic preconditioning--a new approach to infarct size-blood flow data by logistic regression. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 2719-28	5.8	11
18	Positron emission tomography analysis of [1-(11)C] acetate kinetics in short-term hibernating myocardium. <i>Circulation</i> , 1998 , 97, 1009-16	16.7	22
17	Inorganic phosphate content and free energy change of ATP hydrolysis in regional short-term hibernating myocardium. <i>Cardiovascular Research</i> , 1998 , 39, 318-26	9.9	39

16	"Myocardial stunning" remaining questions. <i>Cardiovascular Research</i> , 1998 , 38, 549-58	9.9	28
15	Expression of calcium regulatory proteins in short-term hibernation and stunning in the in situ porcine heart. <i>Cardiovascular Research</i> , 1998 , 37, 606-17	9.9	39
14	Endogenous protective mechanisms in myocardial ischemia: hibernation and ischemic preconditioning. <i>American Journal of Cardiology</i> , 1997 , 80, 26A-33A	3	11
13	Little Evidence for Lethal Reperfusion Injury to Cardiomyocytes. <i>Journal of Thrombosis and Thrombolysis</i> , 1997 , 4, 111-112	5.1	3
12	Hibernating myocardium: a review. <i>Journal of Molecular and Cellular Cardiology</i> , 1996 , 28, 2359-72	5.8	47
11	Calcium responsiveness in regional myocardial short-term hibernation and stunning in the in situ porcine heart. Inotropic responses to postextrasystolic potentiation and intracoronary calcium. <i>Circulation</i> , 1996 , 93, 1556-66	16.7	67
10	No prevention of ischemic preconditioning by the protein kinase C inhibitor staurosporine in swine. <i>Circulation Research</i> , 1996 , 79, 407-14	15.7	62
9	Involvement of endogenous adenosine in ischaemic preconditioning in swine. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 273-82	4.6	88
8	Intraischemic preconditioning. Increased tolerance to sustained low-flow ischemia by a brief episode of no-flow ischemia without intermittent reperfusion. <i>Circulation Research</i> , 1995 , 76, 942-50	15.7	41
7	COR DAT II: a new program for data acquisition and on-line calculation of hemodynamic and regional myocardial dimension parameters. <i>Computers in Biology and Medicine</i> , 1993 , 23, 359-67	7	26
6	Inactivation of recombinant plasmid DNA from a human erythropoietin-producing mouse cell line grown on a large scale. <i>Applied Microbiology and Biotechnology</i> , 1991 , 35, 622-30	5.7	4
5	Pressure-flow characteristics in the right and left ventricular perfusion territories of the right coronary artery in swine. <i>Pflugers Archiv European Journal of Physiology</i> , 1991 , 419, 622-8	4.6	10
4	Interventricular redistribution of myocardial blood flow during metabolic vasodilation. <i>Pflugers Archiv European Journal of Physiology</i> , 1991 , 417, 485-92	4.6	8
3	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	3.4	33
2	Pharmacological mechanisms to attenuate sympathetically induced myocardial ischemia. <i>Cardiovascular Drugs and Therapy</i> , 1989 , 3, 43-56	3.9	5
1	Tyramine kinetics and pressor sensitivity during monoamine oxidase inhibition by selegiline. <i>Clinical Pharmacology and Therapeutics</i> , 1989 , 46, 528-36	6.1	60