

Aruni Bhatnagar

List of Publications by Citations

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

300
papers

17,989
citations

66
h-index

124
g-index

332
ext. papers

21,036
ext. citations

6.2
avg. IF

6.88
L-index

#	Paper	IF	Citations
300	Particulate matter air pollution and cardiovascular disease: An update to the scientific statement from the American Heart Association. <i>Circulation</i> , 2010 , 121, 2331-78	16.7	4009
299	Role of aldose reductase and oxidative damage in diabetes and the consequent potential for therapeutic options. <i>Endocrine Reviews</i> , 2005 , 26, 380-92	27.2	384
298	The aldo-keto reductase superfamily and its role in drug metabolism and detoxification. <i>Drug Metabolism Reviews</i> , 2008 , 40, 553-624	7	333
297	Exposure to Fine Particulate Air Pollution Is Associated With Endothelial Injury and Systemic Inflammation. <i>Circulation Research</i> , 2016 , 119, 1204-1214	15.7	331
296	Environmental cardiology: studying mechanistic links between pollution and heart disease. <i>Circulation Research</i> , 2006 , 99, 692-705	15.7	321
295	Electronic cigarettes: a policy statement from the American Heart Association. <i>Circulation</i> , 2014 , 130, 1418-36	16.7	297
294	Measurement of Reactive Oxygen Species, Reactive Nitrogen Species, and Redox-Dependent Signaling in the Cardiovascular System: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 119, e39-75	15.7	214
293	Resolvin D1 decreases adipose tissue macrophage accumulation and improves insulin sensitivity in obese-diabetic mice. <i>FASEB Journal</i> , 2011 , 25, 2399-407	0.9	214
292	Prevalence and Distribution of E-Cigarette Use Among U.S. Adults: Behavioral Risk Factor Surveillance System, 2016. <i>Annals of Internal Medicine</i> , 2018 , 169, 429-438	8	198
291	Cardioprotective and antiapoptotic effects of heme oxygenase-1 in the failing heart. <i>Circulation</i> , 2010 , 121, 1912-25	16.7	185
290	Metabolism of the lipid peroxidation product, 4-hydroxy-trans-2-nonenal, in isolated perfused rat heart. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10893-900	5.4	180
289	Cardioprotection by N-acetylglucosamine linkage to cellular proteins. <i>Circulation</i> , 2008 , 117, 1172-82	16.7	179
288	Cardiovascular Effects and Benefits of Exercise. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 135	5.4	176
287	Environmental Determinants of Cardiovascular Disease. <i>Circulation Research</i> , 2017 , 121, 162-180	15.7	160
286	Structural and kinetic determinants of aldehyde reduction by aldose reductase. <i>Biochemistry</i> , 1999 , 38, 42-54	3.2	159
285	Activation of nuclear factor-kappaB by hyperglycemia in vascular smooth muscle cells is regulated by aldose reductase. <i>Diabetes</i> , 2004 , 53, 2910-20	0.9	151
284	PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. <i>Biochemical Journal</i> , 2013 , 451, 375-88	3.8	147

283	Association of Electronic Cigarette Use With Subsequent Initiation of Tobacco Cigarettes in US Youths. <i>JAMA Network Open</i> , 2019 , 2, e187794	10.4	143
282	Nitric oxide (NO) induces nitration of protein kinase Cepsilon (PKCepsilon), facilitating PKCepsilon translocation via enhanced PKCepsilon -RACK2 interactions: a novel mechanism of no-triggered activation of PKCepsilon. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15021-7	5.4	143
281	Proresolution therapy for the treatment of delayed healing of diabetic wounds. <i>Diabetes</i> , 2013 , 62, 618-27		140
280	Induction of rat aortic smooth muscle cell growth by the lipid peroxidation product 4-hydroxy-2-nonenal. <i>Circulation</i> , 1998 , 97, 1071-8	16.7	138
279	Unsaturated lipid peroxidation-derived aldehydes activate autophagy in vascular smooth-muscle cells. <i>Biochemical Journal</i> , 2008 , 410, 525-34	3.8	137
278	Polychlorinated biphenyl 153 is a diet-dependent obesogen that worsens nonalcoholic fatty liver disease in male C57BL6/J mice. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1587-95	6.3	131
277	Deficiency of the leukotriene B4 receptor, BLT-1, protects against systemic insulin resistance in diet-induced obesity. <i>Journal of Immunology</i> , 2011 , 187, 1942-9	5.3	131
276	Exposure to Fine Particulate Air Pollution Causes Vascular Insulin Resistance by Inducing Pulmonary Oxidative Stress. <i>Environmental Health Perspectives</i> , 2016 , 124, 1830-1839	8.4	131
275	Metabolomic analysis of pressure-overloaded and infarcted mouse hearts. <i>Circulation: Heart Failure</i> , 2014 , 7, 634-42	7.6	130
274	Aldose reductase: congenial and injurious profiles of an enigmatic enzyme. <i>Biochemical Medicine and Metabolic Biology</i> , 1992 , 48, 91-121		129
273	Protein modification by acrolein: formation and stability of cysteine adducts. <i>Chemical Research in Toxicology</i> , 2009 , 22, 708-16	4	127
272	c-kit+ Cardiac stem cells alleviate post-myocardial infarction left ventricular dysfunction despite poor engraftment and negligible retention in the recipient heart. <i>PLoS ONE</i> , 2014 , 9, e96725	3.7	126
271	Aldose reductase inhibition suppresses oxidative stress-induced inflammatory disorders. <i>Chemico-Biological Interactions</i> , 2011 , 191, 330-8	5	118
270	Mitogenic responses of vascular smooth muscle cells to lipid peroxidation-derived aldehyde 4-hydroxy-trans-2-nonenal (HNE): role of aldose reductase-catalyzed reduction of the HNE-glutathione conjugates in regulating cell growth. <i>Journal of Biological Chemistry</i> , 2006 , 281, 17652-60	5.4	117
269	Acrolein exposure is associated with increased cardiovascular disease risk. <i>Journal of the American Heart Association</i> , 2014 , 3,	6	109
268	Aldose reductase is an obligatory mediator of the late phase of ischemic preconditioning. <i>Circulation Research</i> , 2002 , 91, 240-6	15.7	109
267	Requirement of aldose reductase for the hyperglycemic activation of protein kinase C and formation of diacylglycerol in vascular smooth muscle cells. <i>Diabetes</i> , 2005 , 54, 818-29	0.9	108
266	Overexpression of endothelial nitric oxide synthase prevents diet-induced obesity and regulates adipocyte phenotype. <i>Circulation Research</i> , 2012 , 111, 1176-89	15.7	105

265	Episodic exposure to fine particulate air pollution decreases circulating levels of endothelial progenitor cells. <i>Circulation Research</i> , 2010 , 107, 200-3	15.7	101
264	Cardiac myocyte-specific expression of inducible nitric oxide synthase protects against ischemia/reperfusion injury by preventing mitochondrial permeability transition. <i>Circulation</i> , 2008 , 118, 1970-8	16.7	101
263	Metabolism of lipid peroxidation product, 4-hydroxynonenal (HNE) in rat erythrocytes: role of aldose reductase. <i>Free Radical Biology and Medicine</i> , 2000 , 29, 642-51	7.8	101
262	Protein glutathiolation by nitric oxide: an intracellular mechanism regulating redox protein modification. <i>FASEB Journal</i> , 2006 , 20, 1715-7	0.9	97
261	E-cigarette initiation and associated changes in smoking cessation and reduction: the Population Assessment of Tobacco and Health Study, 2013-2015. <i>Tobacco Control</i> , 2019 , 28, 42-49	5.3	94
260	Protein S-glutathiolation: redox-sensitive regulation of protein function. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 559-67	5.8	88
259	Glutathione-S-transferase P protects against endothelial dysfunction induced by exposure to tobacco smoke. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1586-97	5.2	87
258	Selective recognition of glutathiolated aldehydes by aldose reductase. <i>Biochemistry</i> , 2000 , 39, 12172-80	3.2	86
257	Reductive metabolism of AGE precursors: a metabolic route for preventing AGE accumulation in cardiovascular tissue. <i>Diabetes</i> , 2009 , 58, 2486-97	0.9	84
256	The heme oxygenase 1 inducer (CoPP) protects human cardiac stem cells against apoptosis through activation of the extracellular signal-regulated kinase (ERK)/NRF2 signaling pathway and cytokine release. <i>Journal of Biological Chemistry</i> , 2012 , 287, 33720-32	5.4	84
255	Endotoxin-induced cardiomyopathy and systemic inflammation in mice is prevented by aldose reductase inhibition. <i>Circulation</i> , 2006 , 114, 1838-46	16.7	84
254	Mechanisms of acrolein-induced myocardial dysfunction: implications for environmental and endogenous aldehyde exposure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3673-84	5.2	84
253	Lipid peroxidation product 4-hydroxy-trans-2-nonenal causes endothelial activation by inducing endoplasmic reticulum stress. <i>Journal of Biological Chemistry</i> , 2012 , 287, 11398-409	5.4	83
252	Aldose reductase mediates cytotoxic signals of hyperglycemia and TNF-alpha in human lens epithelial cells. <i>FASEB Journal</i> , 2003 , 17, 315-7	0.9	83
251	Involvement of aldose reductase in vascular smooth muscle cell growth and lesion formation after arterial injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 1745-52	9.4	83
250	Aldose reductase mediates mitogenic signaling in vascular smooth muscle cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 32063-70	5.4	82
249	Oxidative and reductive metabolism of lipid-peroxidation derived carbonyls. <i>Chemico-Biological Interactions</i> , 2015 , 234, 261-73	5	81
248	Oral exposure to acrolein exacerbates atherosclerosis in apoE-null mice. <i>Atherosclerosis</i> , 2011 , 215, 301-8	3.1	79

247	Substrate specificity and catalytic efficiency of aldo-keto reductases with phospholipid aldehydes. <i>Biochemical Journal</i> , 2007 , 405, 95-105	3.8	78
246	Association Between E-Cigarette Use and Cardiovascular Disease Among Never and Current Combustible-Cigarette Smokers. <i>American Journal of Medicine</i> , 2019 , 132, 949-954.e2	2.4	77
245	Acrolein consumption exacerbates myocardial ischemic injury and blocks nitric oxide-induced PKCepsilon signaling and cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 44, 1016-22	5.8	77
244	Human cardiac stem cells isolated from atrial appendages stably express c-kit. <i>PLoS ONE</i> , 2011 , 6, e27719	3.7	73
243	Environmental risk factors for heart disease. <i>Reviews on Environmental Health</i> , 2008 , 23, 167-202	3.8	71
242	Inhibition of aldose reductase attenuates TNF-alpha-induced expression of adhesion molecules in endothelial cells. <i>FASEB Journal</i> , 2004 , 18, 1209-18	0.9	71
241	Kinetic and structural characterization of the glutathione-binding site of aldose reductase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21587-95	5.4	69
240	Identification of cardiac oxidoreductase(s) involved in the metabolism of the lipid peroxidation-derived aldehyde-4-hydroxynonenal. <i>Biochemical Journal</i> , 1998 , 329 (Pt 3), 469-75	3.8	69
239	Redox activation of aldose reductase in the ischemic heart. <i>Journal of Biological Chemistry</i> , 2006 , 281, 15110-20	5.4	67
238	Nitric oxide regulates the polyol pathway of glucose metabolism in vascular smooth muscle cells. <i>FASEB Journal</i> , 2003 , 17, 417-25	0.9	67
237	Comparative measurements of multicomponent phospholipid mixtures by electrospray mass spectroscopy: relating ion intensity to concentration. <i>Analytical Biochemistry</i> , 2002 , 308, 152-9	3.1	67
236	ROLE OF THIOLS IN OXIDATIVE STRESS. <i>Current Opinion in Toxicology</i> , 2018 , 7, 133-139	4.4	66
235	Increased saturated fatty acids in obesity alter resolution of inflammation in part by stimulating prostaglandin production. <i>Journal of Immunology</i> , 2013 , 191, 1383-92	5.3	66
234	Dietary carnosine prevents early atherosclerotic lesion formation in apolipoprotein E-null mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1162-70	9.4	65
233	Lipid peroxidation-derived aldehydes and oxidative stress in the failing heart: role of aldose reductase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H2612-9	5.2	65
232	Association Between Residential Greenness and Cardiovascular Disease Risk. <i>Journal of the American Heart Association</i> , 2018 , 7, e009117	6	65
231	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. <i>Circulation</i> , 2017 , 136, 2144-2157	16.7	63
230	Assessment of immunoreactive synthetic peptides from the structural proteins of severe acute respiratory syndrome coronavirus. <i>Clinical Chemistry</i> , 2003 , 49, 1989-96	5.5	62

229	Nitric oxide prevents aldose reductase activation and sorbitol accumulation during diabetes. <i>Diabetes</i> , 2002 , 51, 3095-101	0.9	62
228	Resolvin D2 Enhances Postischemic Revascularization While Resolving Inflammation. <i>Circulation</i> , 2016 , 134, 666-680	16.7	62
227	Regulation of ion channels by pyridine nucleotides. <i>Circulation Research</i> , 2013 , 112, 721-41	15.7	60
226	High fat feeding in mice is insufficient to induce cardiac dysfunction and does not exacerbate heart failure. <i>PLoS ONE</i> , 2013 , 8, e83174	3.7	60
225	Aldose reductase protects against early atherosclerotic lesion formation in apolipoprotein E-null mice. <i>Circulation Research</i> , 2009 , 105, 793-802	15.7	59
224	Chronic oral exposure to the aldehyde pollutant acrolein induces dilated cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H2050-60	5.2	59
223	Exposure to ambient air fine particulate matter prevents VEGF-induced mobilization of endothelial progenitor cells from the bone marrow. <i>Environmental Health Perspectives</i> , 2012 , 120, 848-56	8.4	59
222	Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. <i>Toxicology and Applied Pharmacology</i> , 2010 , 243, 1-12	4.6	59
221	Aldose reductase-catalyzed reduction of aldehyde phospholipids. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53395-406	5.4	59
220	Anti-inflammatory effects of miR-21 in the macrophage response to peritonitis. <i>Journal of Leukocyte Biology</i> , 2016 , 99, 361-71	6.5	58
219	The oncogenic microRNA miR-21 promotes regulated necrosis in mice. <i>Nature Communications</i> , 2015 , 6, 7151	17.4	58
218	Role of aldose reductase in the metabolism and detoxification of carnosine-acrolein conjugates. <i>Journal of Biological Chemistry</i> , 2013 , 288, 28163-79	5.4	58
217	Electrophysiological effects of 4-hydroxynonenal, an aldehydic product of lipid peroxidation, on isolated rat ventricular myocytes. <i>Circulation Research</i> , 1995 , 76, 293-304	15.7	58
216	Flavorings in Tobacco Products Induce Endothelial Cell Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1607-1615	9.4	57
215	Exposure to acrolein by inhalation causes platelet activation. <i>Toxicology and Applied Pharmacology</i> , 2010 , 248, 100-10	4.6	57
214	Biomarkers of exposure to new and emerging tobacco delivery products. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 313, L425-L452	5.8	56
213	Water Pipe (Hookah) Smoking and Cardiovascular Disease Risk: A Scientific Statement From the American Heart Association. <i>Circulation</i> , 2019 , 139, e917-e936	16.7	56
212	Acrolein activates matrix metalloproteinases by increasing reactive oxygen species in macrophages. <i>Toxicology and Applied Pharmacology</i> , 2009 , 236, 194-201	4.6	56

211	Overview of pyridine nucleotides review series. <i>Circulation Research</i> , 2012 , 111, 604-10	15.7	55
210	Pentaerythritol tetranitrate improves angiotensin II-induced vascular dysfunction via induction of heme oxygenase-1. <i>Hypertension</i> , 2010 , 55, 897-904	8.5	55
209	Role of endoplasmic reticulum stress in acrolein-induced endothelial activation. <i>Toxicology and Applied Pharmacology</i> , 2009 , 234, 14-24	4.6	54
208	Contribution of aldose reductase to diabetic hyperproliferation of vascular smooth muscle cells. <i>Diabetes</i> , 2006 , 55, 901-10	0.9	54
207	Modeling Cardiovascular Risks of E-Cigarettes With Human-Induced Pluripotent Stem Cell-Derived Endothelial Cells. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2722-2737	15.1	52
206	The relationship between smoking intensity and subclinical cardiovascular injury: The Multi-Ethnic Study of Atherosclerosis (MESA). <i>Atherosclerosis</i> , 2017 , 258, 119-130	3.1	51
205	Cigarette Smoking and Incident Heart Failure: Insights From the Jackson Heart Study. <i>Circulation</i> , 2018 , 137, 2572-2582	16.7	51
204	Acrolein inhalation prevents vascular endothelial growth factor-induced mobilization of Flk-1+/Sca-1+ cells in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1598-606	9.4	51
203	Differential regulation of voltage-gated K ⁺ channels by oxidized and reduced pyridine nucleotide coenzymes. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C366-76	5.4	51
202	Detailed analysis of bone marrow from patients with ischemic heart disease and left ventricular dysfunction: BM CD34, CD11b, and clonogenic capacity as biomarkers for clinical outcomes. <i>Circulation Research</i> , 2014 , 115, 867-74	15.7	50
201	Bone marrow characteristics associated with changes in infarct size after STEMI: a biorepository evaluation from the CCTRN TIME trial. <i>Circulation Research</i> , 2015 , 116, 99-107	15.7	49
200	Evidence for the involvement of histidine at the active site of glutathione S-transferase psi from human liver. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 143, 965-70	3.4	49
199	Protein O-GlcNAcylation is a novel cytoprotective signal in cardiac stem cells. <i>Stem Cells</i> , 2013 , 31, 765-75.8	5.8	47
198	Inhalation of Fine Particulate Matter Impairs Endothelial Progenitor Cell Function Via Pulmonary Oxidative Stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 131-142	9.4	47
197	Associations of Cigarette Smoking With Subclinical Inflammation and Atherosclerosis: ELSA-Brasil (The Brazilian Longitudinal Study of Adult Health). <i>Journal of the American Heart Association</i> , 2017 , 6,	6	45
196	Postischemic deactivation of cardiac aldose reductase: role of glutathione S-transferase P and glutaredoxin in regeneration of reduced thiols from sulfenic acids. <i>Journal of Biological Chemistry</i> , 2010 , 285, 26135-48	5.4	44
195	Modification of aldose reductase by S-nitrosoglutathione. <i>Biochemistry</i> , 1997 , 36, 15801-9	3.2	44
194	Role of nitric oxide in regulating aldose reductase activation in the ischemic heart. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9101-12	5.4	44

193	Comparison of Urinary Biomarkers of Exposure in Humans Using Electronic Cigarettes, Combustible Cigarettes, and Smokeless Tobacco. <i>Nicotine and Tobacco Research</i> , 2019 , 21, 1228-1238	4.9	43
192	New and Emerging Tobacco Products and the Nicotine Endgame: The Role of Robust Regulation and Comprehensive Tobacco Control and Prevention: A Presidential Advisory From the American Heart Association. <i>Circulation</i> , 2019 , 139, e937-e958	16.7	42
191	E-Cigarettes and Cardiovascular Disease Risk: Evaluation of Evidence, Policy Implications, and Recommendations. <i>Current Cardiovascular Risk Reports</i> , 2016 , 10, 1	0.9	42
190	Increased sensitivity of glutathione S-transferase P-null mice to cyclophosphamide-induced urinary bladder toxicity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 331, 456-69	4.7	42
189	Kinetic studies of FR-1, a growth factor-inducible aldo-keto reductase. <i>Biochemistry</i> , 1998 , 37, 12909-17	3.2	42
188	Role of glutathiolation in preservation, restoration and regulation of protein function. <i>IUBMB Life</i> , 2007 , 59, 21-6	4.7	41
187	Association Between e-Cigarette Use and Depression in the Behavioral Risk Factor Surveillance System, 2016-2017. <i>JAMA Network Open</i> , 2019 , 2, e1916800	10.4	41
186	Glutamine Regulates Cardiac Progenitor Cell Metabolism and Proliferation. <i>Stem Cells</i> , 2015 , 33, 2613-27,8	5.8	40
185	Catalytic mechanism and substrate specificity of the beta-subunit of the voltage-gated potassium channel. <i>Biochemistry</i> , 2008 , 47, 8840-54	3.2	40
184	The effect of oxidants on biomembranes and cellular metabolism. <i>Molecular and Cellular Biochemistry</i> , 1989 , 91, 149-57	4.2	39
183	MicroRNA-155 potentiates the inflammatory response in hypothermia by suppressing IL-10 production. <i>FASEB Journal</i> , 2014 , 28, 5322-36	0.9	38
182	An analysis of the proteomic profile for <i>Thermoanaerobacter tengcongensis</i> under optimal culture conditions. <i>Proteomics</i> , 2004 , 4, 136-50	4.8	38
181	Inhibition kinetics of human kidney aldose and aldehyde reductases by aldose reductase inhibitors. <i>Biochemical Pharmacology</i> , 1990 , 39, 1115-24	6	38
180	Cigarette Smoking and Chronic Kidney Disease in African Americans in the Jackson Heart Study. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	37
179	Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. <i>Biochemical Journal</i> , 2017 , 474, 2785-2801	3.8	36
178	Transient receptor potential ion channels: powerful regulators of cell function. <i>Annals of Surgery</i> , 2014 , 259, 229-35	7.8	36
177	Aldose reductase regulates TNF-alpha-induced cell signaling and apoptosis in vascular endothelial cells. <i>FEBS Letters</i> , 2004 , 570, 189-94	3.8	36
176	Cardiac mesenchymal cells from diabetic mice are ineffective for cell therapy-mediated myocardial repair. <i>Basic Research in Cardiology</i> , 2018 , 113, 46	11.8	36

175	Electronic cigarette-generated aldehydes: The contribution of e-liquid components to their formation and the use of urinary aldehyde metabolites as biomarkers of exposure. <i>Aerosol Science and Technology</i> , 2018 , 52, 1219-1232	3.4	35
174	Measurement and identification of S-glutathiolated proteins. <i>Methods in Enzymology</i> , 2010 , 473, 179-97	1.7	35
173	NADPH binding to beta-subunit regulates inactivation of voltage-gated K(+) channels. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 359, 269-76	3.4	35
172	Carnosine and anserine homeostasis in skeletal muscle and heart is controlled by Alanine transamination. <i>Journal of Physiology</i> , 2016 , 594, 4849-63	3.9	35
171	Inhibition of fiber cell globulization and hyperglycemia-induced lens opacification by aminopeptidase inhibitor bestatin. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 2285-92		35
170	Insulin sensitizers prevent fine particulate matter-induced vascular insulin resistance and changes in endothelial progenitor cell homeostasis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H1423-38	5.2	34
169	Structural and kinetic modifications of aldose reductase by S-nitrosothiols. <i>Biochemical Journal</i> , 2001 , 358, 111-118	3.8	34
168	Personal-Level Protective Actions Against Particulate Matter Air Pollution Exposure: A Scientific Statement From the American Heart Association. <i>Circulation</i> , 2020 , 142, e411-e431	16.7	32
167	Distribution based nearest neighbor imputation for truncated high dimensional data with applications to pre-clinical and clinical metabolomics studies. <i>BMC Bioinformatics</i> , 2017 , 18, 114	3.6	32
166	Carnosine protects cardiac myocytes against lipid peroxidation products. <i>Amino Acids</i> , 2019 , 51, 123-138	3.5	32
165	Cardiovascular injury induced by tobacco products: assessment of risk factors and biomarkers of harm. A Tobacco Centers of Regulatory Science compilation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H801-H827	5.2	31
164	Interactions between the C-terminus of Kv1.5 and Kv1.5 regulate pyridine nucleotide-dependent changes in channel gating. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 463, 799-818	4.6	31
163	Prenatal exposure to cigarette smoke induces diet- and sex-dependent dyslipidemia and weight gain in adult murine offspring. <i>Environmental Health Perspectives</i> , 2009 , 117, 1042-8	8.4	31
162	Structure of a glutathione conjugate bound to the active site of aldose reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 64, 101-10	4.2	31
161	Human placental aldose reductase: role of Cys-298 in substrate and inhibitor binding. <i>BBA - Proteins and Proteomics</i> , 1994 , 1205, 207-14		31
160	TRPA1 channel contributes to myocardial ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H889-H899	5.2	30
159	Glutathione S-transferase P protects against cyclophosphamide-induced cardiotoxicity in mice. <i>Toxicology and Applied Pharmacology</i> , 2015 , 285, 136-48	4.6	30
158	Acrolein-induced vasomotor responses of rat aorta. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H727-34	5.2	30

157	Binding of pyridine nucleotide coenzymes to the beta-subunit of the voltage-sensitive K ⁺ channel. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11812-20	5.4	30
156	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 13634-48	5.4	30
155	Genetic Deficiency of Glutathione S-Transferase P Increases Myocardial Sensitivity to Ischemia-Reperfusion Injury. <i>Circulation Research</i> , 2015 , 117, 437-49	15.7	29
154	Residential Proximity to Major Roadways Is Associated With Increased Levels of AC133+ Circulating Angiogenic Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 2468-77	9.4	29
153	Could dirty air cause diabetes?. <i>Circulation</i> , 2009 , 119, 492-4	16.7	29
152	Association of Electronic Cigarette Use With Incident Respiratory Conditions Among US Adults From 2013 to 2018. <i>JAMA Network Open</i> , 2020 , 3, e2020816	10.4	29
151	Atf3 negatively regulates Ptgs2/Cox2 expression during acute inflammation. <i>Prostaglandins and Other Lipid Mediators</i> , 2015 , 116-117, 49-56	3.7	28
150	Beyond reactive oxygen species: aldehydes as arbitrators of alarm and adaptation. <i>Circulation Research</i> , 2009 , 105, 1044-6	15.7	28
149	Aldose reductase decreases endoplasmic reticulum stress in ischemic hearts. <i>Chemico-Biological Interactions</i> , 2009 , 178, 242-9	5	28
148	Posttranslational glutathiolation of aldose reductase (AKR1B1): a possible mechanism of protein recovery from S-nitrosylation. <i>Chemico-Biological Interactions</i> , 2009 , 178, 250-8	5	28
147	Biochemical mechanism of irreversible cell injury caused by free radical-initiated reactions. <i>Molecular and Cellular Biochemistry</i> , 1994 , 137, 9-16	4.2	28
146	Characterization of Volatile Organic Compound Metabolites in Cigarette Smokers, Electronic Nicotine Device Users, Dual Users, and Nonusers of Tobacco. <i>Nicotine and Tobacco Research</i> , 2020 , 22, 264-272	4.9	28
145	Defining the Human Envirome: An Omics Approach for Assessing the Environmental Risk of Cardiovascular Disease. <i>Circulation Research</i> , 2018 , 122, 1259-1275	15.7	27
144	Contribution of osmotic changes to disintegrative globulization of single cortical fibers isolated from rat lens. <i>Experimental Eye Research</i> , 1997 , 65, 267-75	3.7	27
143	Cytochromes P450 catalyze oxidation of alpha,beta-unsaturated aldehydes. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 464, 187-96	4.1	27
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