

Aruni Bhatnagar

List of Publications by Year in descending order

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319
papers

23,806
citations

8749

75
h-index

10441

139
g-index

332
all docs

332
docs citations

332
times ranked

28291
citing authors

#	ARTICLE	IF	CITATIONS
1	Particulate Matter Air Pollution and Cardiovascular Disease. <i>Circulation</i> , 2010, 121, 2331-2378.	1.6	5,007
2	Exposure to Fine Particulate Air Pollution Is Associated With Endothelial Injury and Systemic Inflammation. <i>Circulation Research</i> , 2016, 119, 1204-1214.	2.0	472
3	Role of Aldose Reductase and Oxidative Damage in Diabetes and the Consequent Potential for Therapeutic Options. <i>Endocrine Reviews</i> , 2005, 26, 380-392.	8.9	441
4	The Aldo-Keto Reductase Superfamily and its Role in Drug Metabolism and Detoxification. <i>Drug Metabolism Reviews</i> , 2008, 40, 553-624.	1.5	419
5	Cardiovascular Effects and Benefits of Exercise. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 135.	1.1	386
6	Environmental Cardiology. <i>Circulation Research</i> , 2006, 99, 692-705.	2.0	375
7	Electronic Cigarettes. <i>Circulation</i> , 2014, 130, 1418-1436.	1.6	348
8	Environmental Determinants of Cardiovascular Disease. <i>Circulation Research</i> , 2017, 121, 162-180.	2.0	337
9	Measurement of Reactive Oxygen Species, Reactive Nitrogen Species, and Redox-Dependent Signaling in the Cardiovascular System. <i>Circulation Research</i> , 2016, 119, e39-75.	2.0	290
10	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.	2.0	265
11	Resolvin D1 decreases adipose tissue macrophage accumulation and improves insulin sensitivity in obese diabetic mice. <i>FASEB Journal</i> , 2011, 25, 2399-2407.	0.2	263
12	Association of Electronic Cigarette Use With Subsequent Initiation of Tobacco Cigarettes in US Youths. <i>JAMA Network Open</i> , 2019, 2, e187794.	2.8	226
13	Cardioprotection by N-Acetylglucosamine Linkage to Cellular Proteins. <i>Circulation</i> , 2008, 117, 1172-1182.	1.6	215
14	Cardioprotective and Antiapoptotic Effects of Heme Oxygenase-1 in the Failing Heart. <i>Circulation</i> , 2010, 121, 1912-1925.	1.6	212
15	Metabolism of the Lipid Peroxidation Product, 4-Hydroxy-trans-2-nonenal, in Isolated Perfused Rat Heart. <i>Journal of Biological Chemistry</i> , 1998, 273, 10893-10900.	1.6	204
16	Metabolomic Analysis of Pressure-Overloaded and Infarcted Mouse Hearts. <i>Circulation: Heart Failure</i> , 2014, 7, 634-642.	1.6	181
17	Exposure to Fine Particulate Air Pollution Causes Vascular Insulin Resistance by Inducing Pulmonary Oxidative Stress. <i>Environmental Health Perspectives</i> , 2016, 124, 1830-1839.	2.8	180
18	PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. <i>Biochemical Journal</i> , 2013, 451, 375-388.	1.7	175

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19	Structural and Kinetic Determinants of Aldehyde Reduction by Aldose Reductase. <i>Biochemistry</i> , 1999, 38, 42-54.	1.2	173
20	Activation of Nuclear Factor- κ B by Hyperglycemia in Vascular Smooth Muscle Cells Is Regulated by Aldose Reductase. <i>Diabetes</i> , 2004, 53, 2910-2920.	0.3	167
21	Proresolution Therapy for the Treatment of Delayed Healing of Diabetic Wounds. <i>Diabetes</i> , 2013, 62, 618-627.	0.3	167
22	Nitric Oxide (NO) Induces Nitration of Protein Kinase C β (PKC β), Facilitating PKC β Translocation via Enhanced PKC β -RACK2 Interactions. <i>Journal of Biological Chemistry</i> , 2002, 277, 15021-15027.	1.6	165
23	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.	1.1	158
24	Unsaturated lipid peroxidation-derived aldehydes activate autophagy in vascular smooth-muscle cells. <i>Biochemical Journal</i> , 2008, 410, 525-534.	1.7	155
25	Induction of Rat Aortic Smooth Muscle Cell Growth by the Lipid Peroxidation Product 4-Hydroxy-2-Nonenal. <i>Circulation</i> , 1998, 97, 1071-1078.	1.6	152
26	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, 1587-1595.	1.9	151
27	Deficiency of the Leukotriene B4 Receptor, BLT-1, Protects against Systemic Insulin Resistance in Diet-Induced Obesity. <i>Journal of Immunology</i> , 2011, 187, 1942-1949.	0.4	150
28	Protein Modification by Acrolein: Formation and Stability of Cysteine Adducts. <i>Chemical Research in Toxicology</i> , 2009, 22, 708-716.	1.7	147
29	Acrolein Exposure Is Associated With Increased Cardiovascular Disease Risk. <i>Journal of the American Heart Association</i> , 2014, 3, .	1.6	146
30	Aldose reductase inhibition suppresses oxidative stress-induced inflammatory disorders. <i>Chemico-Biological Interactions</i> , 2011, 191, 330-338.	1.7	144
31	Aldose reductase: Congenial and injurious profiles of an enigmatic enzyme. <i>Biochemical Medicine and Metabolic Biology</i> , 1992, 48, 91-121.	0.7	143
32	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.	0.6	139
33	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> , 2018, 28, tobaccocontrol-2017-054108.	1.8	136
34	Overexpression of Endothelial Nitric Oxide Synthase Prevents Diet-Induced Obesity and Regulates Adipocyte Phenotype. <i>Circulation Research</i> , 2012, 111, 1176-1189.	2.0	134
35	Role of thiols in oxidative stress. <i>Current Opinion in Toxicology</i> , 2018, 7, 133-139.	2.6	133
36	Mitogenic Responses of Vascular Smooth Muscle Cells to Lipid Peroxidation-derived Aldehyde 4-Hydroxy-trans-2-nonenal (HNE). <i>Journal of Biological Chemistry</i> , 2006, 281, 17652-17660.	1.6	132

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37	Episodic Exposure to Fine Particulate Air Pollution Decreases Circulating Levels of Endothelial Progenitor Cells. <i>Circulation Research</i> , 2010, 107, 200-203.	2.0	130
38	Aldose Reductase Is an Obligatory Mediator of the Late Phase of Ischemic Preconditioning. <i>Circulation Research</i> , 2002, 91, 240-246.	2.0	120
39	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, 818-829.	0.3	119
40	Metabolism of lipid peroxidation product, 4-hydroxynonenal (HNE) in rat erythrocytes: role of aldose reductase. <i>Free Radical Biology and Medicine</i> , 2000, 29, 642-651.	1.3	114
41	Association Between Residential Greenness and Cardiovascular Disease Risk. <i>Journal of the American Heart Association</i> , 2018, 7, e009117.	1.6	114
42	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.	1.6	112
43	Cardiac Myocyte-Specific Expression of Inducible Nitric Oxide Synthase Protects Against Ischemia/Reperfusion Injury by Preventing Mitochondrial Permeability Transition. <i>Circulation</i> , 2008, 118, 1970-1978.	1.6	109
44	Oxidative and reductive metabolism of lipid-peroxidation derived carbonyls. <i>Chemico-Biological Interactions</i> , 2015, 234, 261-273.	1.7	109
45	Protein glutathiolation by nitric oxide: an intracellular mechanism regulating redox protein modification. <i>FASEB Journal</i> , 2006, 20, 1715-1717.	0.2	108
46	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.	1.2	108
47	Protein S-glutathiolation: Redox-sensitive regulation of protein function. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 559-567.	0.9	106
48	Lipid Peroxidation Product 4-Hydroxy-trans-2-nonenal Causes Endothelial Activation by Inducing Endoplasmic Reticulum Stress. <i>Journal of Biological Chemistry</i> , 2012, 287, 11398-11409.	1.6	105
49	Exercise-Induced Changes in Glucose Metabolism Promote Physiological Cardiac Growth. <i>Circulation</i> , 2017, 136, 2144-2157.	1.6	103
50	Association Between e-Cigarette Use and Depression in the Behavioral Risk Factor Surveillance System, 2016-2017. <i>JAMA Network Open</i> , 2019, 2, e1916800.	2.8	101
51	Water Pipe (Hookah) Smoking and Cardiovascular Disease Risk: A Scientific Statement From the American Heart Association. <i>Circulation</i> , 2019, 139, e917-e936.	1.6	100
52	Reductive Metabolism of AGE Precursors: A Metabolic Route for Preventing AGE Accumulation in Cardiovascular Tissue. <i>Diabetes</i> , 2009, 58, 2486-2497.	0.3	98
53	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-H1597.	1.5	98
54	Oral exposure to acrolein exacerbates atherosclerosis in apoE-null mice. <i>Atherosclerosis</i> , 2011, 215, 301-308.	0.4	98

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55	Endotoxin-Induced Cardiomyopathy and Systemic Inflammation in Mice Is Prevented by Aldose Reductase Inhibition. <i>Circulation</i> , 2006, 114, 1838-1846.	1.6	97
56	Flavorings in Tobacco Products Induce Endothelial Cell Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1607-1615.	1.1	97
57	Cigarette Smoking and Incident Heart Failure. <i>Circulation</i> , 2018, 137, 2572-2582.	1.6	96
58	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.	1.3	95
59	Selective Recognition of Glutathiolated Aldehydes by Aldose Reductase. <i>Biochemistry</i> , 2000, 39, 12172-12180.	1.2	94
60	High-throughput sequencing of SARS-CoV-2 in wastewater provides insights into circulating variants. <i>Water Research</i> , 2021, 205, 117710.	5.3	93
61	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-H3684.	1.5	92
62	Human Cardiac Stem Cells Isolated from Atrial Appendages Stably Express c-kit. <i>PLoS ONE</i> , 2011, 6, e27719.	1.1	91
63	Aldose Reductase Mediates Mitogenic Signaling in Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 32063-32070.	1.6	90
64	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, 1745-1752.	1.1	89
65	Aldose reductase mediates cytotoxic signals of hyperglycemia and TNF α in human lens epithelial cells. <i>FASEB Journal</i> , 2003, 17, 315-317.	0.2	89
66	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, 33720-33732.	1.6	89
67	Dietary Carnosine Prevents Early Atherosclerotic Lesion Formation in Apolipoprotein E α Null Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1162-1170.	1.1	87
68	Cardiovascular pathophysiology of environmental pollutants. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H479-H485.	1.5	86
69	Substrate specificity and catalytic efficiency of aldo-keto reductases with phospholipid aldehydes. <i>Biochemical Journal</i> , 2007, 405, 95-105.	1.7	86
70	Acrolein consumption exacerbates myocardial ischemic injury and blocks nitric oxide-induced PKC β signaling and cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 1016-1022.	0.9	86
71	Resolvin D2 Enhances Postischemic Revascularization While Resolving Inflammation. <i>Circulation</i> , 2016, 134, 666-680.	1.6	85
72	Kinetic and Structural Characterization of the Glutathione-binding Site of Aldose Reductase. <i>Journal of Biological Chemistry</i> , 2000, 275, 21587-21595.	1.6	82

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73	Environmental Risk Factors for Heart Disease. <i>Reviews on Environmental Health</i> , 2008, 23, 167-202.	1.1	82
74	Inhibition of aldose reductase attenuates TNF α -induced expression of adhesion molecules in endothelial cells. <i>FASEB Journal</i> , 2004, 18, 1209-1218.	0.2	81
75	Increased Saturated Fatty Acids in Obesity Alter Resolution of Inflammation in Part by Stimulating Prostaglandin Production. <i>Journal of Immunology</i> , 2013, 191, 1383-1392.	0.4	80
76	Anti-inflammatory effects of miR-21 in the macrophage response to peritonitis. <i>Journal of Leukocyte Biology</i> , 2016, 99, 361-371.	1.5	80
77	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, 848-856.	2.8	78
78	The oncogenic microRNA miR-21 promotes regulated necrosis in mice. <i>Nature Communications</i> , 2015, 6, 7151.	5.8	78
79	Regulation of Ion Channels by Pyridine Nucleotides. <i>Circulation Research</i> , 2013, 112, 721-741.	2.0	77
80	Role of Aldose Reductase in the Metabolism and Detoxification of Carnosine-Acrolein Conjugates. <i>Journal of Biological Chemistry</i> , 2013, 288, 28163-28179.	1.6	77
81	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-H2619.	1.5	76
82	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.	1.4	76
83	Identification of cardiac oxidoreductase(s) involved in the metabolism of the lipid peroxidation-derived aldehyde-4-hydroxynonenal. <i>Biochemical Journal</i> , 1998, 329, 469-475.	1.7	75
84	Redox Activation of Aldose Reductase in the Ischemic Heart. <i>Journal of Biological Chemistry</i> , 2006, 281, 15110-15120.	1.6	75
85	Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. <i>Toxicology and Applied Pharmacology</i> , 2010, 243, 1-12.	1.3	74
86	Exposure to acrolein by inhalation causes platelet activation. <i>Toxicology and Applied Pharmacology</i> , 2010, 248, 100-110.	1.3	74
87	Chronic oral exposure to the aldehyde pollutant acrolein induces dilated cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H2050-H2060.	1.5	74
88	Nitric oxide regulates the polyol pathway of glucose metabolism in vascular smooth muscle cells. <i>FASEB Journal</i> , 2003, 17, 417-425.	0.2	72
89	Assessment of Immunoreactive Synthetic Peptides from the Structural Proteins of Severe Acute Respiratory Syndrome Coronavirus. <i>Clinical Chemistry</i> , 2003, 49, 1989-1996.	1.5	71
90	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.	1.1	71

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91	Comparative measurements of multicomponent phospholipid mixtures by electrospray mass spectroscopy: relating ion intensity to concentration. <i>Analytical Biochemistry</i> , 2002, 308, 152-159.	1.1	70
92	Nitric Oxide Prevents Aldose Reductase Activation and Sorbitol Accumulation During Diabetes. <i>Diabetes</i> , 2002, 51, 3095-3101.	0.3	69
93	Overview of <i>Pyridine Nucleotides</i> Review Series. <i>Circulation Research</i> , 2012, 111, 604-610.	2.0	69
94	High Fat Feeding in Mice Is Insufficient to Induce Cardiac Dysfunction and Does Not Exacerbate Heart Failure. <i>PLoS ONE</i> , 2013, 8, e83174.	1.1	69
95	Association Between E-Cigarette Use and Chronic Obstructive Pulmonary Disease by Smoking Status: Behavioral Risk Factor Surveillance System 2016 and 2017. <i>American Journal of Preventive Medicine</i> , 2020, 58, 336-342.	1.6	69
96	Acrolein activates matrix metalloproteinases by increasing reactive oxygen species in macrophages. <i>Toxicology and Applied Pharmacology</i> , 2009, 236, 194-201.	1.3	68
97	Associations of Cigarette Smoking With Subclinical Inflammation and Atherosclerosis: ELSA-Brazil (The Brazilian Longitudinal Study of Adult Health). <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	67
98	Association of Electronic Cigarette Use With Incident Respiratory Conditions Among US Adults From 2013 to 2018. <i>JAMA Network Open</i> , 2020, 3, e2020816.	2.8	67
99	Electrophysiological Effects of 4-Hydroxynonenal, an Aldehydic Product of Lipid Peroxidation, on Isolated Rat Ventricular Myocytes. <i>Circulation Research</i> , 1995, 76, 293-304.	2.0	67
100	Aldose Reductase Protects Against Early Atherosclerotic Lesion Formation in Apolipoprotein E-Null Mice. <i>Circulation Research</i> , 2009, 105, 793-802.	2.0	66
101	Pentaerythritol Tetranitrate Improves Angiotensin II-Induced Vascular Dysfunction via Induction of Heme Oxygenase-1. <i>Hypertension</i> , 2010, 55, 897-904.	1.3	66
102	The relationship between smoking intensity and subclinical cardiovascular injury: The Multi-Ethnic Study of Atherosclerosis (MESA). <i>Atherosclerosis</i> , 2017, 258, 119-130.	0.4	66
103	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, 1598-1606.	1.1	65
104	Detailed Analysis of Bone Marrow From Patients With Ischemic Heart Disease and Left Ventricular Dysfunction. <i>Circulation Research</i> , 2014, 115, 867-874.	2.0	65
105	Bone Marrow Characteristics Associated With Changes in Infarct Size After STEMI. <i>Circulation Research</i> , 2015, 116, 99-107.	2.0	65
106	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.	1.5	64
107	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-C376.	2.1	62
108	Aldose Reductase-catalyzed Reduction of Aldehyde Phospholipids. <i>Journal of Biological Chemistry</i> , 2004, 279, 53395-53406.	1.6	61

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109	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.	1.6	60
110	Contribution of Aldose Reductase to Diabetic Hyperproliferation of Vascular Smooth Muscle Cells. <i>Diabetes</i> , 2006, 55, 901-910.	0.3	59
111	Role of endoplasmic reticulum stress in acrolein-induced endothelial activation. <i>Toxicology and Applied Pharmacology</i> , 2009, 234, 14-24.	1.3	59
112	MicroRNA-155 potentiates the inflammatory response in hypothermia by suppressing IL-10 production. <i>FASEB Journal</i> , 2014, 28, 5322-5336.	0.2	58
113	Invalidity of an Oft-Cited Estimate of the Relative Harms of Electronic Cigarettes. <i>American Journal of Public Health</i> , 2020, 110, 161-162.	1.5	58
114	Carnosine and anserine homeostasis in skeletal muscle and heart is controlled by α -alanine transamination. <i>Journal of Physiology</i> , 2016, 594, 4849-4863.	1.3	57
115	Alterations in Vascular Function Associated With the Use of Combustible and Electronic Cigarettes. <i>Journal of the American Heart Association</i> , 2020, 9, e014570.	1.6	56
116	Integration of flux measurements to resolve changes in anabolic and catabolic metabolism in cardiac myocytes. <i>Biochemical Journal</i> , 2017, 474, 2785-2801.	1.7	55
117	Carnosine protects cardiac myocytes against lipid peroxidation products. <i>Amino Acids</i> , 2019, 51, 123-138.	1.2	55
118	Benzene exposure is associated with cardiovascular disease risk. <i>PLoS ONE</i> , 2017, 12, e0183602.	1.1	55
119	Protein <i>O</i> -GlcNAcylation Is a Novel Cytoprotective Signal in Cardiac Stem Cells. <i>Stem Cells</i> , 2013, 31, 765-775.	1.4	54
120	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.	1.5	54
121	E-Cigarettes and Cardiovascular Disease Risk: Evaluation of Evidence, Policy Implications, and Recommendations. <i>Current Cardiovascular Risk Reports</i> , 2016, 10, 1.	0.8	53
122	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.	1.2	52
123	Exposure to airborne fine particulate matter is associated with impaired endothelial function and biomarkers of oxidative stress and inflammation. <i>Environmental Research</i> , 2020, 180, 108890.	3.7	52
124	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.	1.4	51
125	Posts ischemic Deactivation of Cardiac Aldose Reductase. <i>Journal of Biological Chemistry</i> , 2010, 285, 26135-26148.	1.6	50
126	Evidence for the involvement of histidine at the active site of glutathione S-transferase γ from human liver. <i>Biochemical and Biophysical Research Communications</i> , 1987, 143, 965-970.	1.0	49

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127	Role of Nitric Oxide in Regulating Aldose Reductase Activation in the Ischemic Heart. <i>Journal of Biological Chemistry</i> , 2008, 283, 9101-9112.	1.6	49
128	The effect of oxidants on biomembranes and cellular metabolism. <i>Molecular and Cellular Biochemistry</i> , 1989, 91, 149-157.	1.4	48
129	Catalytic Mechanism and Substrate Specificity of the β -Subunit of the Voltage-Gated Potassium Channel. <i>Biochemistry</i> , 2008, 47, 8840-8854.	1.2	48
130	Increased Sensitivity of Glutathione <i>S</i> -Transferase P-Null Mice to Cyclophosphamide-Induced Urinary Bladder Toxicity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 456-469.	1.3	47
131	Cigarette Smoking and Chronic Kidney Disease in African Americans in the Jackson Heart Study. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	47
132	Defining the Human Envirome. <i>Circulation Research</i> , 2018, 122, 1259-1275.	2.0	47
133	Guidance to Reduce the Cardiovascular Burden of Ambient Air Pollutants: A Policy Statement From the American Heart Association. <i>Circulation</i> , 2020, 142, e432-e447.	1.6	47
134	Modification of Aldose Reductase byS-Nitrosoglutathione ϵ . <i>Biochemistry</i> , 1997, 36, 15801-15809.	1.2	46
135	Glutamine Regulates Cardiac Progenitor Cell Metabolism and Proliferation. <i>Stem Cells</i> , 2015, 33, 2613-2627.	1.4	46
136	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-H1438.	1.5	46
137	Role of glutathiolation in preservation, restoration and regulation of protein function. <i>IUBMB Life</i> , 2007, 59, 21-26.	1.5	44
138	Atf3 negatively regulates Ptgs2/Cox2 expression during acute inflammation. <i>Prostaglandins and Other Lipid Mediators</i> , 2015, 116-117, 49-56.	1.0	44
139	Exposure to volatile organic compounds ϵ acrolein, 1,3-butadiene, and crotonaldehyde ϵ is associated with vascular dysfunction. <i>Environmental Research</i> , 2021, 196, 110903.	3.7	44
140	Cardiovascular Effects of Particulate Air Pollution. <i>Annual Review of Medicine</i> , 2022, 73, 393-406.	5.0	44
141	Kinetic Studies of FR-1, a Growth Factor-Inducible Aldo-Keto Reductase ϵ . <i>Biochemistry</i> , 1998, 37, 12909-12917.	1.2	43
142	Green environments and cardiovascular health. <i>Trends in Cardiovascular Medicine</i> , 2020, 30, 241-246.	2.3	43
143	Transient Receptor Potential Ion Channels. <i>Annals of Surgery</i> , 2014, 259, 229-235.	2.1	42
144	Biomarkers of Chronic Acrolein Inhalation Exposure in Mice: Implications for Tobacco Product-Induced Toxicity. <i>Toxicological Sciences</i> , 2017, 158, 263-274.	1.4	42

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145	TRPA1 channel contributes to myocardial ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H889-H899.	1.5	42
146	Cardiac mesenchymal cells from diabetic mice are ineffective for cell therapy-mediated myocardial repair. <i>Basic Research in Cardiology</i> , 2018, 113, 46.	2.5	41
147	Association of Cigarette and Electronic Cigarette Use Patterns With Levels of Inflammatory and Oxidative Stress Biomarkers Among US Adults. <i>Circulation</i> , 2021, 143, 869-871.	1.6	41
148	Aldose reductase regulates TNF- α -induced cell signaling and apoptosis in vascular endothelial cells. <i>FEBS Letters</i> , 2004, 570, 189-194.	1.3	40
149	NADPH binding to β -subunit regulates inactivation of voltage-gated K ⁺ channels. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 269-276.	1.0	40
150	Measurement and Identification of S-Glutathiolated Proteins. <i>Methods in Enzymology</i> , 2010, 473, 179-197.	0.4	40
151	Physiological and Pathological Roles of Aldose Reductase. <i>Metabolites</i> , 2021, 11, 655.	1.3	40
152	Inhibition kinetics of human kidney aldose and aldehyde reductases by aldose reductase inhibitors. <i>Biochemical Pharmacology</i> , 1990, 39, 1115-1124.	2.0	39
153	An analysis of the proteomic profile for <i>Thermoanaerobacter tengcongensis</i> under optimal culture conditions. <i>Proteomics</i> , 2004, 4, 136-150.	1.3	39
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, 2468-2477.	1.1	38
155	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, 1042-1048.	2.8	37
156	Interactions between the C-terminus of Kv1.5 and Kv β regulate pyridine nucleotide-dependent changes in channel gating. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 463, 799-818.	1.3	37
157	E-Cigarette Use Patterns and High-Risk Behaviors in Pregnancy: Behavioral Risk Factor Surveillance System, 2016-2018. <i>American Journal of Preventive Medicine</i> , 2020, 59, 187-195.	1.6	37
158	E-Cigarette Use and Risk of Cardiovascular Disease: A Longitudinal Analysis of the PATH Study (2013-2019). <i>Circulation</i> , 2022, 145, 1557-1559.	1.6	37
159	Binding of Pyridine Nucleotide Coenzymes to the β -Subunit of the Voltage-sensitive K ⁺ Channel. <i>Journal of Biological Chemistry</i> , 2001, 276, 11812-11820.	1.6	36
160	Glutathione S-transferase P protects against cyclophosphamide-induced cardiotoxicity in mice. <i>Toxicology and Applied Pharmacology</i> , 2015, 285, 136-148.	1.3	36
161	Evidence-Based Policy Making: Assessment of the American Heart Association's Strategic Policy Portfolio. <i>Circulation</i> , 2016, 133, e615-53.	1.6	36
162	E-Cigarettes and Cardiopulmonary Health. <i>Function</i> , 2021, 2, zqab004.	1.1	36

#	ARTICLE	IF	CITATIONS
163	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.	3.3	36
164	Beyond Reactive Oxygen Species. <i>Circulation Research</i> , 2009, 105, 1044-1046.	2.0	35
165	Acrolein Decreases Endothelial Cell Migration and Insulin Sensitivity Through Induction of let-7a. <i>Toxicological Sciences</i> , 2014, 140, 271-282.	1.4	35
166	Type 2 Diabetes Dysregulates Glucose Metabolism in Cardiac Progenitor Cells. <i>Journal of Biological Chemistry</i> , 2016, 291, 13634-13648.	1.6	35
167	Benzene Exposure Induces Insulin Resistance in Mice. <i>Toxicological Sciences</i> , 2019, 167, 426-437.	1.4	35
168	Structural and kinetic modifications of aldose reductase by S-nitrosothiols. <i>Biochemical Journal</i> , 2001, 358, 111-118.	1.7	34
169	Structure of a glutathione conjugate bound to the active site of aldose reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 64, 101-110.	1.5	34
170	Endoplasmic reticulum stress-dependent activation of ATF3 mediates the late phase of ischemic preconditioning. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 76, 138-147.	0.9	34
171	Modulation of tumorigenesis by the pro-inflammatory microRNA miR-301a in mouse models of lung cancer and colorectal cancer. <i>Cell Discovery</i> , 2015, 1, 15005.	3.1	34
172	Genetic Deficiency of Glutathione <i>S</i> -Transferase P Increases Myocardial Sensitivity to Ischemia-Induced Reperfusion Injury. <i>Circulation Research</i> , 2015, 117, 437-449.	2.0	34
173	Cardiovascular Perspective of the Promises and Perils of E-Cigarettes. <i>Circulation Research</i> , 2016, 118, 1872-1875.	2.0	34
174	Cardiorespiratory and Immunologic Effects of Electronic Cigarettes. <i>Current Addiction Reports</i> , 2021, 8, 336-346.	1.6	34
175	Could Dirty Air Cause Diabetes?. <i>Circulation</i> , 2009, 119, 492-494.	1.6	33
176	Aldose reductase decreases endoplasmic reticulum stress in ischemic hearts. <i>Chemico-Biological Interactions</i> , 2009, 178, 242-249.	1.7	33
177	Posttranslational glutathiolation of aldose reductase (AKR1B1): A possible mechanism of protein recovery from S-nitrosylation. <i>Chemico-Biological Interactions</i> , 2009, 178, 250-258.	1.7	33
178	E-Cigarette Use Without a History of Combustible Cigarette Smoking Among U.S. Adults: Behavioral Risk Factor Surveillance System, 2016. <i>Annals of Internal Medicine</i> , 2019, 170, 76.	2.0	33
179	Biochemical mechanism of irreversible cell injury caused by free radical-initiated reactions. <i>Molecular and Cellular Biochemistry</i> , 1994, 137, 9-16.	1.4	32
180	Identification of Bone Marrow Cell Subpopulations Associated with Improved Functional Outcomes in Patients with Chronic Left Ventricular Dysfunction: An Embedded Cohort Evaluation of the FOCUS-CCTR Trial. <i>Cell Transplantation</i> , 2016, 25, 1675-1687.	1.2	32

#	ARTICLE	IF	CITATIONS
181	CCR7 Maintains Nonresolving Lymph Node and Adipose Inflammation in Obesity. <i>Diabetes</i> , 2016, 65, 2268-2281.	0.3	32
182	Human placental aldose reductase: role of Cys-298 in substrate and inhibitor binding. <i>BBA - Proteins and Proteomics</i> , 1994, 1205, 207-214.	2.1	31
183	Acrolein-induced vasomotor responses of rat aorta. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H727-H734.	1.5	31
184	Association between residential greenness and exposure to volatile organic compounds. <i>Science of the Total Environment</i> , 2020, 707, 135435.	3.9	31
185	Tobacco Use, Insulin Resistance, and Risk of Type 2 Diabetes: Results from the Multi-Ethnic Study of Atherosclerosis. <i>PLoS ONE</i> , 2016, 11, e0157592.	1.1	31
186	Is There A Role for Electronic Cigarettes in Tobacco Cessation?. <i>Journal of the American Heart Association</i> , 2019, 8, e012742.	1.6	30
187	Wastewater Surveillance Can Have a Second Act in COVID-19 Vaccine Distribution. <i>JAMA Health Forum</i> , 2021, 2, e201616.	1.0	30
188	Residential proximity to greenness mitigates the hemodynamic effects of ambient air pollution. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1102-H1111.	1.5	30
189	Contribution of Osmotic Changes to Disintegrative Globulization of Single Cortical Fibers Isolated from Rat Lens. <i>Experimental Eye Research</i> , 1997, 65, 267-275.	1.2	29
190	Cytochromes P450 catalyze oxidation of $\hat{1}\pm, \hat{1}^2$ -unsaturated aldehydes. <i>Archives of Biochemistry and Biophysics</i> , 2007, 464, 187-196.	1.4	29
191	Reductive metabolism increases the proinflammatory activity of aldehyde phospholipids. <i>Journal of Lipid Research</i> , 2011, 52, 2209-2225.	2.0	28
192	Circulating levels of plasminogen and oxidized phospholipids bound to plasminogen distinguish between atherothrombotic and non-atherothrombotic myocardial infarction. <i>Journal of Thrombosis and Thrombolysis</i> , 2016, 42, 61-76.	1.0	28
193	Electronic cigarette solvents, pulmonary irritation, and endothelial dysfunction: role of acetaldehyde and formaldehyde. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1510-H1525.	1.5	28
194	Association of Electronic Cigarette Use with Respiratory Symptom Development among U.S. Young Adults. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 1320-1329.	2.5	28
195	<sc></sc> Arginine prevents metabolic effects of high glucose in diabetic mice. <i>FEBS Letters</i> , 2008, 582, 2609-2614.	1.3	27
196	PKC $\hat{1}\mu$ plays a causal role in acute ethanol-induced steatosis. <i>Archives of Biochemistry and Biophysics</i> , 2009, 482, 104-111.	1.4	27
197	Cigarette Smoking and Subclinical Peripheral Arterial Disease in Blacks of the Jackson Heart Study. <i>Journal of the American Heart Association</i> , 2019, 8, e010674.	1.6	27
198	Prevalence, Trends, and Distribution of Nicotine and Marijuana use in E-cigarettes among US adults: The Behavioral Risk Factor Surveillance System 2016â€“2018. <i>Preventive Medicine</i> , 2020, 139, 106175.	1.6	27

#	ARTICLE	IF	CITATIONS
199	Cardiospecific Overexpression of ATPGD1 (Carnosine Synthase) Increases Histidine Dipeptide Levels and Prevents Myocardial Ischemia Reperfusion Injury. <i>Journal of the American Heart Association</i> , 2020, 9, e015222.	1.6	27
200	Identification of a plasma metabolomic signature of thrombotic myocardial infarction that is distinct from non-thrombotic myocardial infarction and stable coronary artery disease. <i>PLoS ONE</i> , 2017, 12, e0175591.	1.1	27
201	National secular trends in ambient air volatile organic compound levels and biomarkers of exposure in the United States. <i>Environmental Research</i> , 2020, 182, 108991.	3.7	26
202	Functional cysteinyl residues in human placental aldose reductase. <i>Archives of Biochemistry and Biophysics</i> , 1989, 275, 112-121.	1.4	25
203	Calcium-mediated disintegrative globulization of isolated ocular lens fibers mimics cataractogenesis. <i>Experimental Eye Research</i> , 1995, 61, 303-310.	1.2	24
204	Attenuation of 4-hydroxynonenal-induced cataractogenesis in rat lens by butylated hydroxytoluene. <i>Current Eye Research</i> , 1996, 15, 749-754.	0.7	24
205	Functional expression of novel human and murine AKR1B genes. <i>Chemico-Biological Interactions</i> , 2011, 191, 177-184.	1.7	24
206	Aldose reductase (AKR1B3) regulates the accumulation of advanced glycosylation end products (AGEs) and the expression of AGE receptor (RAGE). <i>Chemico-Biological Interactions</i> , 2011, 191, 357-363.	1.7	24
207	Systemic Toxicity of Smokeless Tobacco Products in Mice. <i>Nicotine and Tobacco Research</i> , 2019, 21, 101-110.	1.4	24
208	The kinetic mechanism of human placental aldose reductase and aldehyde reductase II. <i>Archives of Biochemistry and Biophysics</i> , 1988, 261, 264-274.	1.4	23
209	Does sorbinil bind to the substrate binding site of aldose reductase?. <i>Biochemical Pharmacology</i> , 1992, 44, 2427-2429.	2.0	23
210	Deficiency of aldose reductase exacerbates early pressure overload-induced cardiac dysfunction and autophagy in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 118, 183-192.	0.9	23
211	Structural and kinetic modifications of aldose reductase by S-nitrosothiols. <i>Biochemical Journal</i> , 2001, 358, 111.	1.7	22
212	Impact of nutrient excess and endothelial nitric oxide synthase on the plasma metabolite profile in mice. <i>Frontiers in Physiology</i> , 2014, 5, 453.	1.3	22
213	FVB/NJ Mice Are a Useful Model for Examining Cardiac Adaptations to Treadmill Exercise. <i>Frontiers in Physiology</i> , 2016, 7, 636.	1.3	22
214	Greenness, air pollution, and mortality risk: A U.S. cohort study of cancer patients and survivors. <i>Environment International</i> , 2021, 157, 106797.	4.8	22
215	Active site modification of aldose reductase by nitric oxide donors. <i>BBA - Proteins and Proteomics</i> , 1997, 1341, 217-222.	2.1	21
216	Comprehensive, robust, and sensitive UPLC-MS/MS analysis of free biogenic monoamines and their metabolites in urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1099, 83-91.	1.2	21

#	ARTICLE	IF	CITATIONS
217	Metabolic regulation of Kv channels and cardiac repolarization by Kv ² subunits. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 137, 93-106.	0.9	21
218	Cannabis vaping among adults in the United States: Prevalence, trends, and association with high-risk behaviors and adverse respiratory conditions. <i>Preventive Medicine</i> , 2021, 153, 106800.	1.6	21
219	Aldo-keto Reductase 1B15 (AKR1B15). <i>Journal of Biological Chemistry</i> , 2015, 290, 6531-6545.	1.6	20
220	Induction of activating transcription factor 3 limits survival following infarct-induced heart failure in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1326-H1335.	1.5	20
221	Enhanced Integrin α 1 β -Mediated Adhesion Contributes to a Mobilization Defect of Endothelial Progenitor Cells in Diabetes. <i>Diabetes</i> , 2016, 65, 3505-3515.	0.3	20
222	Circulating angiogenic stem cells in type 2 diabetes are associated with glycemic control and endothelial dysfunction. <i>PLoS ONE</i> , 2018, 13, e0205851.	1.1	20
223	Relation Between Cigarette Smoking and Heart Failure (from the Multiethnic Study of Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50)	0.7	20
224	Cigarette Smoking, Incident Coronary Heart Disease, and Coronary Artery Calcification in Black Adults: The Jackson Heart Study. <i>Journal of the American Heart Association</i> , 2021, 10, e017320.	1.6	19
225	SARS-CoV-2 RNA abundance in wastewater as a function of distinct urban sewershed size. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 807-819.	1.2	19
226	Characterization of the glutathione binding site of aldose reductase. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 537-548.	1.7	18
227	Bone marrow cell characteristics associated with patient profile and cardiac performance outcomes in the LateTIME-Cardiovascular Cell Therapy Research Network (CCTRN) trial. <i>American Heart Journal</i> , 2016, 179, 142-150.	1.2	18
228	TNF receptor signaling inhibits cardiomyogenic differentiation of cardiac stem cells and promotes a neuroadrenergic-like fate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H1189-H1201.	1.5	18
229	Deletion of Kv ² 1.1 subunit leads to electrical and haemodynamic changes causing cardiac hypertrophy in female murine hearts. <i>Experimental Physiology</i> , 2016, 101, 494-508.	0.9	18
230	Carnosine Supplementation Mitigates the Deleterious Effects of Particulate Matter Exposure in Mice. <i>Journal of the American Heart Association</i> , 2019, 8, e013041.	1.6	18
231	Exercise Promotes Resolution of Acute Inflammation by Catecholamine-Mediated Stimulation of Resolvin D1 Biosynthesis. <i>Journal of Immunology</i> , 2019, 203, 3013-3022.	0.4	18
232	Acute and chronic vascular effects of inhaled crotonaldehyde in mice: Role of TRPA1. <i>Toxicology and Applied Pharmacology</i> , 2020, 402, 115120.	1.3	18
233	Protein kinase C-dependent phosphorylation and mitochondrial translocation of aldose reductase. <i>FEBS Letters</i> , 2003, 534, 175-179.	1.3	17
234	Kv ² 1.1 (AKR6A8) senses pyridine nucleotide changes in the mouse heart and modulates cardiac electrical activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H571-H583.	1.5	16

#	ARTICLE	IF	CITATIONS
235	Mortality risk associated with greenness, air pollution, and physical activity in a representative U.S. cohort. <i>Science of the Total Environment</i> , 2022, 824, 153848.	3.9	16
236	Effect of extracellular ions and modulators of calcium transport on survival of tert-butyl hydroperoxide exposed cardiac myocytes. <i>Cardiovascular Research</i> , 1993, 27, 1873-1881.	1.8	15
237	Synthesis, Quantification, Characterization, and Signaling Properties of Glutathionyl Conjugates of Enals. <i>Methods in Enzymology</i> , 2010, 474, 297-313.	0.4	15
238	Heteromeric complexes of aldo-keto reductase auxiliary K V $\hat{1}^2$ subunits (AKR6A) regulate sarcolemmal localization of K V 1.5 in coronary arterial myocytes. <i>Chemico-Biological Interactions</i> , 2017, 276, 210-217.	1.7	15
239	Systems characterization of differential plasma metabolome perturbations following thrombotic and non-thrombotic myocardial infarction. <i>Journal of Proteomics</i> , 2017, 160, 38-46.	1.2	15
240	The Rapid Assessment of Aggregated Wastewater Samples for Genomic Surveillance of SARS-CoV-2 on a City-Wide Scale. <i>Pathogens</i> , 2021, 10, 1271.	1.2	15
241	Catalytic reduction of carbonyl groups in oxidized PAPC by Kv $\hat{1}^2$ (AKR6). <i>Chemico-Biological Interactions</i> , 2011, 191, 255-260.	1.7	14
242	Glutathione <i>S</i> -transferase P deficiency induces glucose intolerance via JNK-dependent enhancement of hepatic gluconeogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1005-E1018.	1.8	14
243	Racial/Ethnic Differences in Associations of Non-cigarette Tobacco Product Use With Subsequent Initiation of Cigarettes in US Youths. <i>Nicotine and Tobacco Research</i> , 2021, 23, 900-908.	1.4	14
244	Association of device type, flavours and vaping behaviour with tobacco product transitions among adult electronic cigarette users in the USA. <i>Tobacco Control</i> , 2022, 31, e10-e17.	1.8	14
245	Protocol to assess the impact of tobacco-induced volatile organic compounds on cardiovascular risk in a cross-sectional cohort: Cardiovascular Injury due to Tobacco Use study. <i>BMJ Open</i> , 2018, 8, e019850.	0.8	13
246	Carnosine Supplementation Enhances Post Ischemic Hind Limb Revascularization. <i>Frontiers in Physiology</i> , 2019, 10, 751.	1.3	13
247	Nicotine Metabolism in Adults With Type 2 Diabetes. <i>Nicotine and Tobacco Research</i> , 2019, 21, 846-849.	1.4	13
248	Evidence and magnitude of the effects of meteorological changes on SARS-CoV-2 transmission. <i>PLoS ONE</i> , 2021, 16, e0246167.	1.1	13
249	Electronic Cigarette Solvents, JUUL E-Liquids, and Biomarkers of Exposure: In Vivo Evidence for Acrolein and Glycidol in E-Cig-Derived Aerosols. <i>Chemical Research in Toxicology</i> , 2022, 35, 283-292.	1.7	13
250	Environmental exposure to volatile organic compounds is associated with endothelial injury. <i>Toxicology and Applied Pharmacology</i> , 2022, 437, 115877.	1.3	13
251	The Responses of Mitochondrial Proteome in Rat Liver to the Consumption of Moderate Ethanol: The Possible Roles of Aldo-Keto Reductases. <i>Journal of Proteome Research</i> , 2008, 7, 3137-3145.	1.8	12
252	Acetaldehyde Induces an Endothelium-Dependent Relaxation of Superior Mesenteric Artery: Potential Role in Postprandial Hyperemia. <i>Frontiers in Physiology</i> , 2019, 10, 1315.	1.3	12

#	ARTICLE	IF	CITATIONS
253	Lipid profiles in users of combustible and electronic cigarettes. <i>Vascular Medicine</i> , 2021, 26, 483-488.	0.8	12
254	Digital Image Analysis of Cultured Rat Lens During Oxidative Stress-induced Cataractogenesis. <i>Experimental Eye Research</i> , 1993, 57, 385-391.	1.2	11
255	Cardiac Toxic Effects of Trans-2-Hexenal Are Mediated by Induction of Cardiomyocyte Apoptotic Pathways. <i>Cardiovascular Toxicology</i> , 2003, 3, 341-352.	1.1	11
256	Regulation of lens aldose reductase activity by nitric oxide. <i>Experimental Eye Research</i> , 2005, 81, 664-672.	1.2	11
257	Aldose reductase (AKR1B) deficiency promotes phagocytosis in bone marrow derived mouse macrophages. <i>Chemico-Biological Interactions</i> , 2017, 265, 16-23.	1.7	11
258	Comparative effects of parent and heated cinnamaldehyde on the function of human iPSC-derived cardiac myocytes. <i>Toxicology in Vitro</i> , 2019, 61, 104648.	1.1	11
259	Myocardial Blood Flow Control by Oxygen Sensing Vascular Kv ^{1.2} Proteins. <i>Circulation Research</i> , 2021, 128, 738-751.	2.0	11
260	Presence of multiple coronary angiographic characteristics for the diagnosis of acute coronary thrombus. <i>Cardiology Journal</i> , 2017, 24, 25-34.	0.5	11
261	Acrolein, a ubiquitous pollutant and lipid hydroperoxide product, inhibits antiviral activity of interferon- β : relevance to hepatitis C. <i>Free Radical Biology and Medicine</i> , 2009, 47, 47-54.	1.3	10
262	Are Electronic Cigarette Users at Increased Risk for Cardiovascular Disease?. <i>JAMA Cardiology</i> , 2017, 2, 237.	3.0	10
263	Serological assessment of SARS-CoV-2 infection during the first wave of the pandemic in Louisville Kentucky. <i>Scientific Reports</i> , 2021, 11, 18285.	1.6	10
264	Smoking is associated with increased risk of cardiovascular events, disease severity, and mortality among patients hospitalized for SARS-CoV-2 infections. <i>PLoS ONE</i> , 2022, 17, e0270763.	1.1	10
265	Oxidative stress-induced up-regulation of the chloride channel and Na ⁺ /Ca ²⁺ exchanger during cataractogenesis in diabetic rats. <i>Journal of Diabetes and Its Complications</i> , 2004, 18, 177-182.	1.2	9
266	Kinetics of nucleotide binding to the β -subunit (AKR6A2) of the voltage-gated potassium (Kv) channel. <i>Chemico-Biological Interactions</i> , 2009, 178, 165-170.	1.7	9
267	Smoking Accelerates Atrioventricular Conduction in Humans Concordant with Increased Dopamine Release. <i>Cardiovascular Toxicology</i> , 2021, 21, 169-178.	1.1	9
268	Particulate Matter and Oxidative Stress – Pulmonary and Cardiovascular Targets and Consequences. , 2014, , 1557-1586.		9
269	Metabolic regulation of aldose reductase activity by nitric oxide donors. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 573-581.	1.7	8
270	Surviving Hypoxia. <i>Circulation Research</i> , 2003, 92, 821-823.	2.0	8

#	ARTICLE	IF	CITATIONS
271	Introduction to Cardiovascular Aging Compendium. <i>Circulation Research</i> , 2018, 123, 737-739.	2.0	8
272	Public Awareness of and Support for the Use of Wastewater for SARS-CoV-2 Monitoring: A Community Survey in Louisville, Kentucky. <i>ACS ES&T Water</i> , 2022, 2, 1891-1898.	2.3	8
273	Human liver aldehyde reductase: pH dependence of steady-state kinetic parameters. <i>Archives of Biochemistry and Biophysics</i> , 1991, 287, 329-336.	1.4	7
274	Attenuation of Reperfusion Injury by the Antioxidant n-Propyl Gallate. <i>Journal of Cardiovascular Pharmacology</i> , 1995, 26, 343-347.	0.8	7
275	Space Flight Diet-Induced Deficiency and Response to Gravity-Free Resistive Exercise. <i>Nutrients</i> , 2020, 12, 2400.	1.7	7
276	Beating Ischemia. <i>Circulation Research</i> , 2004, 95, 443-445.	2.0	6
277	O-GlcNAcylation Negatively Regulates Cardiomyogenic Fate in Adult Mouse Cardiac Mesenchymal Stromal Cells. <i>PLoS ONE</i> , 2015, 10, e0142939.	1.1	6
278	Statistical design of Phase II/III clinical trials for testing therapeutic interventions in COVID-19 patients. <i>BMC Medical Research Methodology</i> , 2020, 20, 220.	1.4	6
279	Tobacco Use Prevalence and Transitions From 2013 to 2018 Among Adults With a History of Cardiovascular Disease. <i>Journal of the American Heart Association</i> , 2021, 10, e021118.	1.6	6
280	Subclinical markers of cardiovascular toxicity of benzene inhalation in mice. <i>Toxicology and Applied Pharmacology</i> , 2021, 431, 115742.	1.3	6
281	Guidance to Employers on Integrating E-Cigarettes/Electronic Nicotine Delivery Systems Into Tobacco Worksite Policy. <i>Journal of Occupational and Environmental Medicine</i> , 2015, 57, 334-343.	0.9	5
282	Biochemical and physiological properties of K ⁺ channel-associated AKR6A (Kv1 ²) proteins. <i>Chemico-Biological Interactions</i> , 2019, 305, 21-27.	1.7	5
283	Inhibition of aldose reductase activity stimulates starvation induced autophagy and clears aldehyde protein adducts. <i>Chemico-Biological Interactions</i> , 2019, 306, 104-109.	1.7	5
284	Omega-3 polyunsaturated fatty acids modify the inverse association between systemic inflammation and cardiovascular fitness. <i>Clinical Nutrition</i> , 2021, 40, 4097-4105.	2.3	5
285	Exposure to Fine Particulate Matter Air Pollution Alters mRNA and miRNA Expression in Bone Marrow-Derived Endothelial Progenitor Cells from Mice. <i>Genes</i> , 2021, 12, 1058.	1.0	5
286	Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism. <i>Nature Communications</i> , 2022, 13, 2051.	5.8	5
287	Aldose Reductase Detoxifies Lipid Aldehydes and Their Glutathione Conjugates. <i>ACS Symposium Series</i> , 2003, , 37-48.	0.5	4
288	A new approach to monitor expression of aldoâ€“keto reductase proteins in mouse tissues. <i>Proteomics</i> , 2009, 9, 5090-5100.	1.3	4

#	ARTICLE	IF	CITATIONS
289	Are <i>Glutathione S-Transferase Null Genotypes</i> Null and Void of Risk for Ischemic Vascular Disease?. <i>Circulation: Cardiovascular Genetics</i> , 2011, 4, 339-341.	5.1	4
290	Association between serum cotinine levels and electrocardiographic left atrial abnormality. <i>Annals of Noninvasive Electrocardiology</i> , 2019, 24, e12586.	0.5	4
291	Acute exposure to air pollution is associated with novel changes in blood levels of endothelin-1 and circulating angiogenic cells in young, healthy adults. <i>AIMS Environmental Science</i> , 2019, 6, 265-276.	0.7	4
292	Response by Bhatnagar to Letter Regarding Article, "Environmental Determinants of Cardiovascular Disease". <i>Circulation Research</i> , 2017, 121, e81-e82.	2.0	3
293	Does Air Pollution Increase Risk of Mortality After Cardiac Transplantation?. <i>Journal of the American College of Cardiology</i> , 2019, 74, 3036-3038.	1.2	3
294	Urinary Levels of the Acrolein Conjugates of Carnosine Are Associated with Cardiovascular Disease Risk. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1383.	1.8	3
295	Role of Aldose Reductase in the Detoxification of Oxidized Phospholipids. <i>ACS Symposium Series</i> , 2003, , 49-64.	0.5	2
296	Differential pyridine nucleotide coenzyme binding to the β -subunit of the voltage-sensitive K ⁺ channel: a mechanism for redox regulation of excitability?. <i>Chemico-Biological Interactions</i> , 2003, 143-144, 613-620.	1.7	2
297	Commentaries "Another Addition to the Portfolio of <i>Circulation Research</i> ". <i>Circulation Research</i> , 2011, 108, 157-157.	2.0	2
298	The role and function of β in monocyte impairment. <i>Scientific Reports</i> , 2020, 10, 12222.	1.6	2
299	Urinary levels of the acrolein conjugates of carnosine are associated with inhaled toxicants. <i>Inhalation Toxicology</i> , 2020, 32, 468-476.	0.8	2
300	Structure-Function Studies of FR-1. <i>Advances in Experimental Medicine and Biology</i> , 1999, , 435-443.	0.8	2
301	Towards a novel application of wastewater-based epidemiology in population-wide assessment of exposure to volatile organic compounds. <i>Science of the Total Environment</i> , 2022, 845, 157008.	3.9	2
302	Aldose Reductase and the Stress Response. <i>ACS Symposium Series</i> , 2003, , 199-211.	0.5	1
303	<i>PKCβ</i> Contributes to Chronic Ethanol-Induced Steatosis in Mice but not Inflammation and Necrosis. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 801-809.	1.4	1
304	Platelet Sensitivity is Increased by Acrolein. <i>FASEB Journal</i> , 2008, 22, 897.6.	0.2	1
305	Novel insights into the role of glucose metabolism in regulating vascular smooth muscle cell phenotype and proliferative capacity. <i>FASEB Journal</i> , 2011, 25, 1026.33.	0.2	1
306	Enviromics: understanding aging. <i>Aging</i> , 2018, 11, 9-10.	1.4	1

#	ARTICLE	IF	CITATIONS
307	Protocol to assess the efficacy of carnosine supplementation in mitigating the adverse cardiovascular responses to particulate matter (PM) exposure: the Nucleophilic Defense Against PM Toxicity (NEAT) trial. <i>BMJ Open</i> , 2020, 10, e039118.	0.8	1
308	Aldose Reductase Regulates Reactive Oxygen Species Mediated-Inflammatory Signals. <i>ACS Symposium Series</i> , 2003, , 213-223.	0.5	0
309	Editorial Commentary: The cardiovascular cost of vaping. <i>Trends in Cardiovascular Medicine</i> , 2020, 30, 141-142.	2.3	0
310	Exploring the Nature of Associations Between SES and Greenness in the Green Heart Louisville Study. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
311	L-Arginine Alleviates Hyperglycemia-Induced Vascular Inflammation In Diabetic Mice. <i>FASEB Journal</i> , 2006, 20, A979.	0.2	0
312	The lipid peroxidation product 4-hydroxy-trans-2-nonenal (HNE) promotes unique ER stress responses. <i>FASEB Journal</i> , 2007, 21, A978.	0.2	0
313	Cardioprotection in iNOS transgenic mice is independent of mitochondrial biogenesis.. <i>FASEB Journal</i> , 2008, 22, 835.2.	0.2	0
314	Reductive Metabolism of Phospholipid Aldehydes in Macrophages Enhance their Pro-inflammatory Potential. <i>FASEB Journal</i> , 2008, 22, 1037.5.	0.2	0
315	Environmental pollutant and lipid peroxidation product, acrolein, inhibits interferon- α mediated antiviral signaling in human hepatocytes: relevance for HCV therapy. <i>FASEB Journal</i> , 2008, 22, 646.10.	0.2	0
316	Acrolein Inhalation Suppresses Recruitment and Mobilization of Endothelial Progenitor Cells. <i>FASEB Journal</i> , 2010, 24, 703.11.	0.2	0
317	Cloning, Expression and Characterization of Novel Aldo-Keto Reductase 1B (AKR1B) Proteins -Human AKR1B11 and Murine Akr1b16. <i>FASEB Journal</i> , 2010, 24, 666.4.	0.2	0
318	Nutrient excess promotes accumulation of bone marrow-derived progenitor cells in adipose tissue (641.12). <i>FASEB Journal</i> , 2014, 28, 641.12.	0.2	0
319	The Enzymatic Function of K ^v 2.2 Contributes to Resistance Artery Vasodilation. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0