

William Durante

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.

125 papers	5,586 citations	42 h-index	72 g-index
131 ext. papers	6,018 ext. citations	5 avg, IF	5.79 L-index

#	Paper	IF	Citations
125	Arginase: a critical regulator of nitric oxide synthesis and vascular function. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007 , 34, 906-11	3	376
124	Nitric oxide induces heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. <i>Circulation Research</i> , 1997 , 80, 557-64	15.7	256
123	Vascular smooth muscle cell heme oxygenases generate guanylyl cyclase-stimulatory carbon monoxide. <i>Circulation</i> , 1995 , 91, 2306-9	16.7	195
122	Impairment of endothelium-dependent relaxation in aortae from spontaneously diabetic rats. <i>British Journal of Pharmacology</i> , 1988 , 94, 463-8	8.6	192
121	Heme oxygenase-1 in growth control and its clinical application to vascular disease. <i>Journal of Cellular Physiology</i> , 2003 , 195, 373-82	7	160
120	Hyperhomocysteinemia accelerates atherosclerosis in cystathionine beta-synthase and apolipoprotein E double knock-out mice with and without dietary perturbation. <i>Blood</i> , 2003 , 101, 3901-7	7.2	152
119	Adenovirus-mediated heme oxygenase-1 gene delivery inhibits injury-induced vascular neointima formation. <i>Circulation</i> , 2001 , 104, 2710-5	16.7	150
118	Carbon monoxide inhibits apoptosis in vascular smooth muscle cells. <i>Cardiovascular Research</i> , 2002 , 55, 396-405	9.9	145
117	Heme oxygenase-1-derived carbon monoxide is an autocrine inhibitor of vascular smooth muscle cell growth. <i>Blood</i> , 2002 , 99, 4443-8	2.2	138
116	Hyperhomocysteinemia decreases circulating high-density lipoprotein by inhibiting apolipoprotein A-I Protein synthesis and enhancing HDL cholesterol clearance. <i>Circulation Research</i> , 2006 , 99, 598-606	15.7	135
115	Heme oxygenase-1 attenuates vascular remodeling following balloon injury in rat carotid arteries. <i>Atherosclerosis</i> , 2001 , 155, 113-22	3.1	130
114	Activation of AMPK stimulates heme oxygenase-1 gene expression and human endothelial cell survival. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H84-93	5.2	127
113	Hyperhomocystinemia impairs endothelial function and eNOS activity via PKC activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 2515-21	9.4	126
112	Adenovirus-mediated heme oxygenase-1 gene expression stimulates apoptosis in vascular smooth muscle cells. <i>Circulation</i> , 2002 , 105, 79-84	16.7	121
111	Regulation of homocysteine metabolism and methylation in human and mouse tissues. <i>FASEB Journal</i> , 2010 , 24, 2804-17	0.9	117
110	Role of carbon monoxide in cardiovascular function. <i>Journal of Cellular and Molecular Medicine</i> , 2006 , 10, 672-86	5.6	117
109	Transforming growth factor-beta(1) stimulates L-arginine transport and metabolism in vascular smooth muscle cells: role in polyamine and collagen synthesis. <i>Circulation</i> , 2001 , 103, 1121-7	16.7	116

108	Homocysteine inhibits endothelial cell growth via DNA hypomethylation of the cyclin A gene. <i>Blood</i> , 2007 , 110, 3648-55	2.2	114
107	Arginase inhibition restores arteriolar endothelial function in Dahl rats with salt-induced hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R1057-62	3.2	112
106	Hyperhomocysteinemia promotes inflammatory monocyte generation and accelerates atherosclerosis in transgenic cystathionine beta-synthase-deficient mice. <i>Circulation</i> , 2009 , 120, 1893-902	16.7	104
105	Endoplasmic reticulum stress stimulates heme oxygenase-1 gene expression in vascular smooth muscle. Role in cell survival. <i>Journal of Biological Chemistry</i> , 2005 , 280, 872-7	5.4	101
104	Targeting heme oxygenase-1 in vascular disease. <i>Current Drug Targets</i> , 2010 , 11, 1504-16	3	96
103	Nitric oxide stimulates heme oxygenase-1 gene transcription via the Nrf2/ARE complex to promote vascular smooth muscle cell survival. <i>Cardiovascular Research</i> , 2007 , 75, 381-9	9.9	94
102	Far infrared therapy inhibits vascular endothelial inflammation via the induction of heme oxygenase-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 739-45	9.4	93
101	Carbon monoxide and bile pigments: surprising mediators of vascular function. <i>Vascular Medicine</i> , 2002 , 7, 195-202	3.3	69
100	Physiological cyclic stretch directs L-arginine transport and metabolism to collagen synthesis in vascular smooth muscle. <i>FASEB Journal</i> , 2000 , 14, 1775-83	0.9	69
99	Physiologic cyclic stretch inhibits apoptosis in vascular endothelium. <i>FEBS Letters</i> , 2003 , 541, 52-6	3.8	66
98	Platelet-derived growth factor regulates vascular smooth muscle cell proliferation by inducing cationic amino acid transporter gene expression. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11838-43	5.4	65
97	Platelet-derived growth factor stimulates LAT1 gene expression in vascular smooth muscle: role in cell growth. <i>FASEB Journal</i> , 2004 , 18, 768-70	0.9	64
96	Platelet-derived growth factor stimulates heme oxygenase-1 gene expression and carbon monoxide production in vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 2666-72	9.4	61
95	Real-time measurements of endogenous CO production from vascular cells using an ultrasensitive laser sensor. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H483-8	5.2	55
94	Hyperhomocysteinemia inhibits post-injury reendothelialization in mice. <i>Cardiovascular Research</i> , 2006 , 69, 253-62	9.9	54
93	Protective role of heme oxygenase-1 against inflammation in atherosclerosis. <i>Frontiers in Bioscience - Landmark</i> , 2011 , 16, 2372-88	2.8	52
92	Arginase promotes neointima formation in rat injured carotid arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 488-94	9.4	52
91	Metabolic syndrome increases endogenous carbon monoxide production to promote hypertension and endothelial dysfunction in obese Zucker rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R601-8	3.2	52

90	Cyclin A transcriptional suppression is the major mechanism mediating homocysteine-induced endothelial cell growth inhibition. <i>Blood</i> , 2002 , 99, 939-945	2.2	51
89	Differential regulation of L-arginine transport and nitric oxide production by vascular smooth muscle and endothelium. <i>Circulation Research</i> , 1996 , 78, 1075-82	15.7	51
88	Role of arginase in vessel wall remodeling. <i>Frontiers in Immunology</i> , 2013 , 4, 111	8.4	49
87	YC-1-mediated vascular protection through inhibition of smooth muscle cell proliferation and platelet function. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 291, 1014-21	3.4	48
86	Heme oxygenase inhibitor restores arteriolar nitric oxide function in dahl rats. <i>Hypertension</i> , 2003 , 41, 149-55	8.5	47
85	YC-1, a benzyl indazole derivative, stimulates vascular cGMP and inhibits neointima formation. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 279, 646-52	3.4	45
84	Physiological cyclic strain promotes endothelial cell survival via the induction of heme oxygenase-1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1634-43	5.2	44
83	Hypochlorous acid-induced heme oxygenase-1 gene expression promotes human endothelial cell survival. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C907-15	5.4	42
82	Lysophosphatidylcholine regulates cationic amino acid transport and metabolism in vascular smooth muscle cells. Role in polyamine biosynthesis. <i>Journal of Biological Chemistry</i> , 1997 , 272, 30154-9	5.4	40
81	Antiapoptotic action of carbon monoxide on cultured vascular smooth muscle cells. <i>Experimental Biology and Medicine</i> , 2003 , 228, 572-5	3.7	37
80	Activation of AMP-activated protein kinase inhibits the proliferation of human endothelial cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 342, 827-34	4.7	36
79	Heme oxygenase-1 deficiency leads to alteration of soluble guanylate cyclase redox regulation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 335, 85-91	4.7	35
78	Arginase promotes endothelial dysfunction and hypertension in obese rats. <i>Obesity</i> , 2015 , 23, 383-90	8	33
77	Heme oxygenase-derived carbon monoxide promotes arteriolar endothelial dysfunction and contributes to salt-induced hypertension in Dahl salt-sensitive rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R615-22	3.2	33
76	Thrombin stimulates vascular smooth muscle cell polyamine synthesis by inducing cationic amino acid transporter and ornithine decarboxylase gene expression. <i>Circulation Research</i> , 1998 , 83, 217-23	15.7	33
75	Bilirubin inhibits neointima formation and vascular smooth muscle cell proliferation and migration. <i>Frontiers in Pharmacology</i> , 2012 , 3, 48	5.6	32
74	The Emerging Role of L-Glutamine in Cardiovascular Health and Disease. <i>Nutrients</i> , 2019 , 11,	6.7	31
73	Antecedent hydrogen sulfide elicits an anti-inflammatory phenotype in postischemic murine small intestine: role of heme oxygenase-1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H888-94	5.2	30

72	Heme oxygenase-1 inhibits pro-oxidant induced hypertrophy in HL-1 cardiomyocytes. <i>Experimental Biology and Medicine</i> , 2009 , 234, 582-94	3.7	29
71	AICAR preconditioning prevents postischemic leukocyte rolling and adhesion: role of K(ATP) channels and heme oxygenase. <i>Microcirculation</i> , 2009 , 16, 167-76	2.9	28
70	Regulation of L-arginine transport and metabolism in vascular smooth muscle cells. <i>Cell Biochemistry and Biophysics</i> , 2001 , 35, 19-34	3.2	28
69	Cyclin A transcriptional suppression is the major mechanism mediating homocysteine-induced endothelial cell growth inhibition. <i>Blood</i> , 2002 , 99, 939-45	2.2	28
68	Differential regulation of homocysteine transport in vascular endothelial and smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1976-83	9.4	26
67	Heme oxygenase-1 counteracts contrast media-induced endothelial cell dysfunction. <i>Biochemical Pharmacology</i> , 2014 , 87, 303-11	6	25
66	Compound C stimulates heme oxygenase-1 gene expression via the Nrf2-ARE pathway to preserve human endothelial cell survival. <i>Biochemical Pharmacology</i> , 2011 , 82, 371-9	6	25
65	Glutaminase-1 stimulates the proliferation, migration, and survival of human endothelial cells. <i>Biochemical Pharmacology</i> , 2018 , 156, 204-214	6	22
64	Canagliflozin Inhibits Human Endothelial Cell Proliferation and Tube Formation. <i>Frontiers in Pharmacology</i> , 2019 , 10, 362	5.6	21
63	Canagliflozin inhibits vascular smooth muscle cell proliferation and migration: Role of heme oxygenase-1. <i>Redox Biology</i> , 2020 , 32, 101527	11.3	21
62	Compound C inhibits vascular smooth muscle cell proliferation and migration in an AMP-activated protein kinase-independent fashion. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 338, 476-84	4.7	21
61	Hydrogen Sulfide Therapy in Diabetes-Accelerated Atherosclerosis: A Whiff of Success. <i>Diabetes</i> , 2016 , 65, 2832-4	0.9	21
60	Ammonia promotes endothelial cell survival via the heme oxygenase-1-mediated release of carbon monoxide. <i>Free Radical Biology and Medicine</i> , 2017 , 102, 37-46	7.8	20
59	Single perivascular delivery of mitomycin C stimulates p21 expression and inhibits neointima formation in rat arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 2343-8	9.4	20
58	Heme oxygenase-1-derived bilirubin counteracts HIV protease inhibitor-mediated endothelial cell dysfunction. <i>Free Radical Biology and Medicine</i> , 2016 , 94, 218-29	7.8	19
57	Daily exercise prevents diastolic dysfunction and oxidative stress in a female mouse model of western diet induced obesity by maintaining cardiac heme oxygenase-1 levels. <i>Metabolism: Clinical and Experimental</i> , 2017 , 66, 14-22	12.7	19
56	Sildenafil stimulates the expression of gaseous monoxide-generating enzymes in vascular smooth muscle cells via distinct signaling pathways. <i>Biochemical Pharmacology</i> , 2012 , 84, 1045-54	6	19
55	Nebivolol improves insulin sensitivity in the TGR(Ren2)27 rat. <i>Metabolism: Clinical and Experimental</i> , 2011 , 60, 1757-66	12.7	19

54	Eicosapentaenoic acid potentiates the production of nitric oxide evoked by interleukin-1 beta in cultured vascular smooth muscle cells. <i>Journal of Vascular Research</i> , 1993 , 30, 209-17	1.9	19
53	Endothelium-Derived Hyperpolarizing Factors: A Potential Therapeutic Target for Vascular Dysfunction in Obesity and Insulin Resistance. <i>Diabetes</i> , 2016 , 65, 2118-20	0.9	18
52	Preconditioning with the BK channel activator NS-1619 prevents ischemia-reperfusion-induced inflammation and mucosal barrier dysfunction: roles for ROS and heme oxygenase-1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H988-H999	5.2	16
51	Preconditioning with soluble guanylate cyclase activation prevents postischemic inflammation and reduces nitrate tolerance in heme oxygenase-1 knockout mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H521-32	5.2	16
50	YC-1 stimulates the expression of gaseous monoxide-generating enzymes in vascular smooth muscle cells. <i>Molecular Pharmacology</i> , 2009 , 75, 208-17	4.3	16
49	Heme oxygenase-mediated endothelial dysfunction in DOCA-salt, but not in spontaneously hypertensive, rat arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H1681-7	5.2	16
48	Cyclic nucleotide regulation of interleukin-1 beta induced nitric oxide synthase expression in vascular smooth muscle cells. <i>Thrombosis Research</i> , 1994 , 75, 63-71	8.2	16
47	Alterations in atrial reactivity in a strain of spontaneously diabetic rats. <i>British Journal of Pharmacology</i> , 1989 , 97, 1137-44	8.6	16
46	Amino Acids in Circulatory Function and Health. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1265, 39-56	3.6	14
45	Arginase inhibition prevents the development of hypertension and improves insulin resistance in obese rats. <i>Amino Acids</i> , 2018 , 50, 747-754	3.5	13
44	Vascular arginase contributes to arteriolar endothelial dysfunction in a rat model of hemorrhagic shock. <i>Journal of Trauma</i> , 2010 , 69, 384-91		13
43	Regulation of interleukin-1-beta-stimulated inducible nitric oxide synthase expression in cultured vascular smooth muscle cells by hemostatic proteins. <i>Biochemical Pharmacology</i> , 1996 , 51, 847-53	6	13
42	Effects of Sodium-Glucose Co-Transporter 2 Inhibitors on Vascular Cell Function and Arterial Remodeling. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	13
41	Enhanced heme oxygenase-mediated coronary vasodilation in Dahl salt-sensitive hypertension. <i>American Journal of Hypertension</i> , 2004 , 17, 25-30	2.3	12
40	Transforming growth factor- β stimulates vascular smooth muscle cell l-proline transport by inducing system A amino acid transporter 2 (SAT2) gene expression. <i>Biochemical Journal</i> , 2001 , 360, 507-512	3.8	12
39	Targeting Heme Oxygenase-1 in the Arterial Response to Injury and Disease. <i>Antioxidants</i> , 2020 , 9,	7.1	12
38	HOming in on arteriovenous fistula survival. <i>Kidney International</i> , 2008 , 74, 9-11	9.9	10
37	Role of the Pyk2-MAP kinase-cPLA2 signaling pathway in shear-dependent platelet aggregation. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 1193-201	4.7	10

36	Cyclic strain stimulates L-proline transport in vascular smooth muscle cells. <i>American Journal of Hypertension</i> , 2004 , 17, 712-7	2.3	10
35	The cyclic GMP modulators YC-1 and zaprinast reduce vessel remodeling through antiproliferative and proapoptotic effects. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2009 , 14, 116-24	2.6	9
34	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020 , 109, 154223	12.7	7
33	Arginase promotes skeletal muscle arteriolar endothelial dysfunction in diabetic rats. <i>Frontiers in Immunology</i> , 2013 , 4, 119	8.4	7
32	Butylated hydroxyanisole stimulates heme oxygenase-1 gene expression and inhibits neointima formation in rat arteries. <i>Cardiovascular Research</i> , 2007 , 74, 169-79	9.9	7
31	Targeting endoplasmic reticulum stress in hypoxia-induced cardiac injury. <i>Vascular Pharmacology</i> , 2016 , 83, 1-3	5.9	6
30	Bilirubin: striking gold in diabetic vasculopathy?. <i>Diabetes</i> , 2015 , 64, 1506-8	0.9	4
29	Cardiovascular effects of high frequency ventilation--the possible involvement of thromboxane. <i>Prostaglandins, Leukotrienes, and Medicine</i> , 1987 , 28, 127-39		4
28	Targeting heme oxygenase-1 in the treatment of atherosclerosis. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2005 , 2, 201-206		3
27	Aldosterone promotes endothelial dysfunction via prostacyclin independent of hypertension. <i>Hypertension</i> , 2005 , 46, 29-30	8.5	3
26	Prolonged cyclic strain inhibits human endothelial cell growth. <i>Frontiers in Bioscience - Elite</i> , 2016 , 8, 205-11		2
25	Protective Role of Heme Oxygenase-1 in Atherosclerosis 2015 , 365-377		
24	Hyperglycemia stimulates vascular arginase activity. <i>FASEB Journal</i> , 2006 , 20, A727	0.9	
23	PPAR δ agonist protects against salt-mediated increases in endogenous carbon monoxide production and blood pressure in Dahl salt-sensitive rats. <i>FASEB Journal</i> , 2006 , 20, A306	0.9	
22	High-salt diet increases endogenous carbon monoxide production to promote hypertension in Dahl salt-sensitive rats. <i>FASEB Journal</i> , 2006 , 20, A306	0.9	
21	Regulation of Homocysteine Transport in Vascular Cells.. <i>Blood</i> , 2006 , 108, 3926-3926	2.2	
20	Homocysteine Inhibits Cyclin A Promoter Methylation Via DNMT3 Inactivation in Human Endothelial Cells.. <i>Blood</i> , 2006 , 108, 1822-1822	2.2	
19	Arginase contributes to arteriolar endothelial dysfunction following hemorrhage. <i>FASEB Journal</i> , 2007 , 21, A1404	0.9	

- 18 Hypochlorous acid stimulates heme oxygenase-1 gene expression in vascular endothelium. *FASEB Journal*, **2008**, 22, 964.7 0.9
- 17 ANTECEDENT HYDROGEN SULFIDE ELICITS AN ANTI-INFLAMMATORY PHENOTYPE IN POSTISCHEMIC MURINE SMALL INTESTINE: ROLE OF HEME OXYGENASE-1. *FASEB Journal*, **2008**, 22, 1138.8 0.9
- 16 AICAR preconditioning prevents postischemic leukocyte rolling and adhesion: Role of KATP channels and heme oxygenase. *FASEB Journal*, **2008**, 22, 731.9 0.9
- 15 YC-1 stimulates heme oxygenase-1 gene expression in vascular smooth muscle cells. *FASEB Journal*, **2008**, 22, 749.3 0.9
- 14 LAT1 Promotes Angiogenic Responses in Human Endothelial Cells. *FASEB Journal*, **2018**, 32, 902.2 0.9
- 13 L-Arginine Prevents Heme-Induced Acute Lung Injury (ALI) in a Rat Model of Trauma/Hemorrhage and Resuscitation with Transfusion. *FASEB Journal*, **2018**, 32, 910.8 0.9
- 12 Inhibition of Human Endothelial Cell Function by Metformin and Canagliflozin. *FASEB Journal*, **2019**, 33, 527.11 0.9
- 11 Arginase Promotes Endothelial Dysfunction and Hypertension in Obesity by Restricting Arginine Bioavailability. *FASEB Journal*, **2015**, 29, 805.3 0.9
- 10 Ammonia Stimulates Heme Oxygenase-1 Gene Expression in Human Endothelial Cells. *FASEB Journal*, **2015**, 29, 642.2 0.9
- 9 AMP-activated protein kinase activation stimulates heme oxygenase-1 gene expression in human vascular endothelium. *FASEB Journal*, **2009**, 23, 637.3 0.9
- 8 Cyclooxygenase Regulation Contributes to Hyperhomocysteinemia induced Endothelial Dysfunction in Transgenic Cystathionine beta-synthase Deficient Mice. *FASEB Journal*, **2009**, 23, 934.8 0.9
- 7 AMP-activated protein kinase activation stimulates heme oxygenase-1 gene expression to promote human endothelial cell survival. *FASEB Journal*, **2010**, 24, 598.8 0.9
- 6 AMP-activated protein kinase activation inhibits human endothelial cell proliferation. *FASEB Journal*, **2012**, 26, 1129.31 0.9
- 5 Sildenafil stimulates heme oxygenase-1 gene expression in vascular smooth muscle cells via a soluble guanylate cyclase-independent pathway. *FASEB Journal*, **2012**, 26, 1115.5 0.9
- 4 Soluble guanylate cyclase activation protects against postischemic inflammation and reduces nitrate tolerance in heme-oxygenase-1 knockout mice. *FASEB Journal*, **2012**, 26, 678.2 0.9
- 3 Hemoperitonium Increases Carbon Monoxide and Reduces Platelet Aggregation in Trauma Patients. *FASEB Journal*, **2012**, 26, 1132.6 0.9
- 2 Plasma arginase promotes acute lung injury (ALI) in a rat model of trauma/hemorrhage and resuscitation. *FASEB Journal*, **2012**, 26, 1132.5 0.9
- 1 Physiologic cyclic strain stimulates heme oxygenase-1 gene expression in endothelial cells: role in cell survival and proliferation. *FASEB Journal*, **2013**, 27, 1127.4 0.9

