

W Robert Taylor

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.

119
papers

8,429
citations

46
h-index

90
g-index

132
ext. papers

9,286
ext. citations

7.4
avg, IF

5.77
L-index

#	Paper	IF	Citations
119	Superoxide production and expression of nox family proteins in human atherosclerosis. <i>Circulation</i> , 2002 , 105, 1429-35	16.7	741
118	Role of NADH/NADPH oxidase-derived H ₂ O ₂ in angiotensin II-induced vascular hypertrophy. <i>Hypertension</i> , 1998 , 32, 488-95	8.5	551
117	In vivo imaging of hydrogen peroxide with chemiluminescent nanoparticles. <i>Nature Materials</i> , 2007 , 6, 765-9	27	411
116	p22phox mRNA expression and NADPH oxidase activity are increased in aortas from hypertensive rats. <i>Circulation Research</i> , 1997 , 80, 45-51	15.7	363
115	Nox1 overexpression potentiates angiotensin II-induced hypertension and vascular smooth muscle hypertrophy in transgenic mice. <i>Circulation</i> , 2005 , 112, 2668-76	16.7	349
114	Angiotensin II-induced hypertension accelerates the development of atherosclerosis in apoE-deficient mice. <i>Circulation</i> , 2001 , 103, 448-54	16.7	313
113	The role of the adventitia in vascular inflammation. <i>Cardiovascular Research</i> , 2007 , 75, 640-8	9.9	277
112	Hydrocyanines: a class of fluorescent sensors that can image reactive oxygen species in cell culture, tissue, and in vivo. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 299-303	16.4	276
111	Hemodynamic shear stresses in mouse aortas: implications for atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 346-51	9.4	233
110	Bioartificial matrices for therapeutic vascularization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3323-8	11.5	230
109	Bone morphogenic protein 4 produced in endothelial cells by oscillatory shear stress stimulates an inflammatory response. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31128-35	5.4	230
108	Quantitative microcomputed tomography analysis of collateral vessel development after ischemic injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H302-10	5.2	192
107	Increased circulating endothelial progenitor cells are associated with survival in acute lung injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 854-60	10.2	184
106	Impaired angiogenesis, early callus formation, and late stage remodeling in fracture healing of osteopontin-deficient mice. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 286-97	6.3	155
105	The study of the influence of flow on vascular endothelial biology. <i>American Journal of the Medical Sciences</i> , 1998 , 316, 169-75	2.2	145
104	Monocyte chemoattractant protein-1 expression in aortic tissues of hypertensive rats. <i>Hypertension</i> , 1997 , 30, 1397-402	8.5	139
103	Vasculogenic bio-synthetic hydrogel for enhancement of pancreatic islet engraftment and function in type 1 diabetes. <i>Biomaterials</i> , 2013 , 34, 4602-11	15.6	128

102	CC chemokine receptor 2 is required for macrophage infiltration and vascular hypertrophy in angiotensin II-induced hypertension. <i>Hypertension</i> , 2000 , 36, 360-3	8.5	126
101	Vascular hypertrophy in angiotensin II-induced hypertension is mediated by vascular smooth muscle cell-derived H ₂ O ₂ . <i>Hypertension</i> , 2005 , 46, 732-7	8.5	120
100	Sustained VEGF delivery via PLGA nanoparticles promotes vascular growth. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1959-65	5.2	115
99	Pharmacological suppression of hepcidin increases macrophage cholesterol efflux and reduces foam cell formation and atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2993-307	9.4	110
98	Cellular encapsulation enhances cardiac repair. <i>Journal of the American Heart Association</i> , 2013 , 2, e000367	3.7	107
97	Bone morphogenic protein antagonists are coexpressed with bone morphogenic protein 4 in endothelial cells exposed to unstable flow in vitro in mouse aortas and in human coronary arteries: role of bone morphogenic protein antagonists in inflammation and atherosclerosis. <i>Circulation</i> , 2007 , 116, 1258-66	16.7	107
96	NOX and inflammation in the vascular adventitia. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 1254-66	7.8	104
95	Cellular Mechanisms of Aortic Aneurysm Formation. <i>Circulation Research</i> , 2019 , 124, 607-618	15.7	103
94	Reactive oxygen species-selective regulation of aortic inflammatory gene expression in Type 2 diabetes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2073-82	5.2	103
93	Shear stress and plaque development. <i>Expert Review of Cardiovascular Therapy</i> , 2010 , 8, 545-56	2.5	99
92	Activation of extracellular signal-regulated kinase is involved in mechanical strain inhibition of RANKL expression in bone stromal cells. <i>Journal of Bone and Mineral Research</i> , 2002 , 17, 1452-60	6.3	96
91	PET imaging of bacterial infections with fluorine-18-labeled maltohexaose. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14096-14101	16.4	86
90	Mice with enhanced macrophage angiotensin-converting enzyme are resistant to melanoma. <i>American Journal of Pathology</i> , 2007 , 170, 2122-34	5.8	84
89	Granulocyte colony-stimulating factor and granulocyte macrophage colony-stimulating factor exacerbate atherosclerosis in apolipoprotein E-deficient mice. <i>Circulation</i> , 2007 , 115, 2049-54	16.7	83
88	Convergence of redox-sensitive and mitogen-activated protein kinase signaling pathways in tumor necrosis factor-alpha-mediated monocyte chemoattractant protein-1 induction in vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 385-91	9.4	83
87	Biomechanical strain induces class a scavenger receptor expression in human monocyte/macrophages and THP-1 cells: a potential mechanism of increased atherosclerosis in hypertension. <i>Circulation</i> , 2001 , 104, 109-14	16.7	82
86	Expression of CYP1A1 and CYP1B1 in human endothelial cells: regulation by fluid shear stress. <i>Cardiovascular Research</i> , 2009 , 81, 669-77	9.9	81
85	Circulating CD34+ progenitor cells and risk of mortality in a population with coronary artery disease. <i>Circulation Research</i> , 2015 , 116, 289-297	15.7	79

84	Anti-inflammatory and antiatherogenic role of BMP receptor II in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1350-9	9.4	68
83	Preferential activation of SMAD1/5/8 on the fibrosa endothelium in calcified human aortic valves--association with low BMP antagonists and SMAD6. <i>PLoS ONE</i> , 2011 , 6, e20969	3.7	60
82	Effect of inlet velocity profiles on patient-specific computational fluid dynamics simulations of the carotid bifurcation. <i>Journal of Biomechanical Engineering</i> , 2012 , 134, 051001	2.1	60
81	CD163 interacts with TWEAK to regulate tissue regeneration after ischaemic injury. <i>Nature Communications</i> , 2015 , 6, 7792	17.4	58
80	The role of lysyl oxidase family members in the stabilization of abdominal aortic aneurysms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H1067-75	5.2	55
79	Bone marrow mobilization with granulocyte macrophage colony-stimulating factor improves endothelial dysfunction and exercise capacity in patients with peripheral arterial disease. <i>American Heart Journal</i> , 2009 , 158, 53-60.e1	4.9	53
78	Angiopoietin-2 stimulates blood flow recovery after femoral artery occlusion by inducing inflammation and arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1989-95	9.4	49
77	Deoxycorticosterone acetate salt hypertension in apolipoprotein E-/- mice results in accelerated atherosclerosis: the role of angiotensin II. <i>Hypertension</i> , 2008 , 51, 218-24	8.5	49
76	Overexpression of catalase in vascular smooth muscle cells prevents the formation of abdominal aortic aneurysms. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 2389-96	9.4	47
75	A significant improvement of the efficacy of radical oxidant probes by the kinetic isotope effect. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6134-8	16.4	46
74	The role of osteopontin in recovery from hind limb ischemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 290-5	9.4	46
73	Polymerase delta interacting protein 2 sustains vascular structure and function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 2154-61	9.4	44
72	Quantitative 3D fluorescence technique for the analysis of en face preparations of arterial walls using quantum dot nanocrystals and two-photon excitation laser scanning microscopy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R114-23	3.2	44
71	Nucleoside reverse transcriptase inhibitors impair endothelium-dependent relaxation by increasing superoxide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H2363-70	5.2	41
70	Alginate microencapsulation of human mesenchymal stem cells as a strategy to enhance paracrine-mediated vascular recovery after hindlimb ischaemia. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 222-32	4.4	38
69	Catalase overexpression in aortic smooth muscle prevents pathological mechanical changes underlying abdominal aortic aneurysm formation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H355-62	5.2	38
68	Differential effects of AT1 receptor and Ca ²⁺ channel blockade on atherosclerosis, inflammatory gene expression, and production of reactive oxygen species. <i>Atherosclerosis</i> , 2007 , 195, 39-47	3.1	37
67	In vivo assessment of blood flow patterns in abdominal aorta of mice with MRI: implications for AAA localization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H1290-5	5.2	36

66	Severe Acute Respiratory Syndrome Coronavirus 2, COVID-19, and the Renin-Angiotensin System: Pressing Needs and Best Research Practices. <i>Hypertension</i> , 2020 , 76, 1350-1367	8.5	36
65	Reactive oxygen species regulate osteopontin expression in a murine model of postischemic neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1383-91	9.4	34
64	Circadian variation in vascular function and regenerative capacity in healthy humans. <i>Journal of the American Heart Association</i> , 2014 , 3, e000845	6	32
63	Disturbed Flow Increases UBE2C (Ubiquitin E2 Ligase C) via Loss of miR-483-3p, Inducing Aortic Valve Calcification by the pVHL (von Hippel-Lindau Protein) and HIF-1[α] (Hypoxia-Inducible Factor-1) Pathway in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 467-481	9.4	32
62	miR181a protects against angiotensin II-induced osteopontin expression in vascular smooth muscle cells. <i>Atherosclerosis</i> , 2013 , 228, 168-74	3.1	27
61	Vascular thrombin receptor regulation in hypertensive rats. <i>Circulation Research</i> , 1997 , 80, 838-44	15.7	26
60	Coupled Morphological-Hemodynamic Computational Analysis of Type B Aortic Dissection: A Longitudinal Study. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 927-939	4.7	25
59	A Novel Technique for Accelerated Culture of Murine Mesenchymal Stem Cells that Allows for Sustained Multipotency. <i>Scientific Reports</i> , 2017 , 7, 13334	4.9	23
58	Vascular injury involves the overoxidation of peroxiredoxin type II and is recovered by the peroxiredoxin activity mimetic that induces reendothelialization. <i>Circulation</i> , 2013 , 128, 834-44	16.7	23
57	Is increased arterial stiffness a cause or consequence of atherosclerosis?. <i>Atherosclerosis</i> , 2016 , 249, 226-31	3.1	23
56	The receptor for advanced glycation end products impairs collateral formation in both diabetic and non-diabetic mice. <i>Laboratory Investigation</i> , 2017 , 97, 34-42	5.9	22
55	HERPUD1 protects against oxidative stress-induced apoptosis through downregulation of the inositol 1,4,5-trisphosphate receptor. <i>Free Radical Biology and Medicine</i> , 2016 , 90, 206-18	7.8	21
54	Fibronectin and Cyclic Strain Improve Cardiac Progenitor Cell Regenerative Potential In Vitro. <i>Stem Cells International</i> , 2016 , 2016, 8364382	5	21
53	Hydrogen peroxide regulates osteopontin expression through activation of transcriptional and translational pathways. <i>Journal of Biological Chemistry</i> , 2014 , 289, 275-85	5.4	20
52	Hypertensive vascular disease and inflammation: mechanical and humoral mechanisms. <i>Current Hypertension Reports</i> , 1999 , 1, 96-101	4.7	20
51	Biomechanics and inflammation in atherosclerotic plaque erosion and plaque rupture: implications for cardiovascular events in women. <i>PLoS ONE</i> , 2014 , 9, e111785	3.7	20
50	Overexpression of catalase in myeloid cells causes impaired postischemic neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2203-9	9.4	19
49	Mechanical deformation of the arterial wall in hypertension: a mechanism for vascular pathology. <i>American Journal of the Medical Sciences</i> , 1998 , 316, 156-61	2.2	19

48	Nox4-dependent activation of cofilin mediates VSMC reorientation in response to cyclic stretching. <i>Free Radical Biology and Medicine</i> , 2015 , 85, 288-94	7.8	17
47	Polymerase Interacting protein 2 promotes postischemic neovascularization of the mouse hindlimb. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1548-55	9.4	17
46	Growth and regression of vasculature in healthy and diabetic mice after hindlimb ischemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 303, R48-56	3.2	17
45	Superoxide and hydrogen peroxide counterregulate myogenic contractions in renal afferent arterioles from a mouse model of chronic kidney disease. <i>Kidney International</i> , 2017 , 92, 625-633	9.9	16
44	Computational Fluid Dynamics Simulations of Hemodynamics in Plaque Erosion. <i>Cardiovascular Engineering and Technology</i> , 2013 , 4, 464	2.2	16
43	Ultrasound imaging of oxidative stress in vivo with chemically-generated gas microbubbles. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 2059-68	4.7	15
42	An in vivo murine model of low-magnitude oscillatory wall shear stress to address the molecular mechanisms of mechanotransduction--brief report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 2099-102	9.4	15
41	Temporal effects of catalase overexpression on healing after myocardial infarction. <i>Circulation: Heart Failure</i> , 2011 , 4, 98-106	7.6	14
40	Polarized secretion of IGF-I and IGF-I binding protein activity by cultured aortic endothelial cells. <i>Journal of Cellular Physiology</i> , 1993 , 154, 139-42	7	13
39	A Trimethoprim Conjugate of Thiomaltose Has Enhanced Antibacterial Efficacy In Vivo. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1729-1735	6.3	12
38	Biomechanical modeling and morphology analysis indicates plaque rupture due to mechanical failure unlikely in atherosclerosis-prone mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H473-86	5.2	12
37	Beyond the adventitia: exploring the outer limits of the blood vessel wall. <i>Circulation Research</i> , 2009 , 104, 416-8	15.7	12
36	Markers of inflammation collocate with increased wall stress in human coronary arterial plaque. <i>Biomechanics and Modeling in Mechanobiology</i> , 2009 , 8, 473-86	3.8	12
35	Characterizing intramural stress and inflammation in hypertensive arterial bifurcations. <i>Biomechanics and Modeling in Mechanobiology</i> , 2007 , 6, 409-21	3.8	12
34	Rounding up the usual suspects in atherosclerosis. Focus on "Growth factors induce monocyte binding to vascular smooth muscle". <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 287, C592-3	5.4	12
33	Novel PET and Near Infrared Imaging Probes for the Specific Detection of Bacterial Infections Associated With Cardiac Devices. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 875-886	8.4	12
32	Redox signaling in an in vivo murine model of low magnitude oscillatory wall shear stress. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1369-78	8.4	11
31	Effect of poly(ethylene glycol) diacrylate concentration on network properties and in vivo response of poly(ε-amino ester) networks. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 320-9	5.4	11

30	Mechanoregulation of monocyte chemoattractant protein-1 expression in rat vascular smooth muscle cells. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1461-71	8.4	11
29	Assessment of the regional distribution of normalized circumferential strain in the thoracic and abdominal aorta using DENSE cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 59	6.9	10
28	Critical Limb Ischemia Induces Remodeling of Skeletal Muscle Motor Unit, Myonuclear-, and Mitochondrial-Domains. <i>Scientific Reports</i> , 2019 , 9, 9551	4.9	9
27	Vascular wall ACE is not required for atherogenesis in ApoE(-/-) mice. <i>Atherosclerosis</i> , 2010 , 209, 352-8	3.1	9
26	Developing cell-specific antibodies to endothelial progenitor cells using avian immune phage display technology. <i>Journal of Biomolecular Screening</i> , 2011 , 16, 744-54		9
25	Intestinal barrier dysfunction as a therapeutic target for cardiovascular disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H1227-H1233	5.2	9
24	Osteopontin isoforms differentially promote arteriogenesis in response to ischemia via macrophage accumulation and survival. <i>Laboratory Investigation</i> , 2019 , 99, 331-345	5.9	8
23	Smooth Muscle-Targeted Overexpression of Peroxisome Proliferator Activated Receptor- α Disrupts Vascular Wall Structure and Function. <i>PLoS ONE</i> , 2015 , 10, e0139756	3.7	8
22	Circulating proangiogenic cell activity is associated with cardiovascular disease risk. <i>Journal of Biomolecular Screening</i> , 2012 , 17, 1163-70		8
21	The Study of the Influence of Flow on Vascular Endothelial Biology. <i>American Journal of the Medical Sciences</i> , 1998 , 316, 169-175	2.2	8
20	Poldip2 knockdown inhibits vascular smooth muscle proliferation and neointima formation by regulating the expression of PCNA and p21. <i>Laboratory Investigation</i> , 2019 , 99, 387-398	5.9	8
19	Cyclic Strain and Hypertension Increase Osteopontin Expression in the Aorta. <i>Cellular and Molecular Bioengineering</i> , 2017 , 10, 144-152	3.9	7
18	Over-expression of catalase in myeloid cells confers acute protection following myocardial infarction. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 9036-50	6.3	7
17	Semi-degradable poly(β amino ester) networks with temporally controlled enhancement of mechanical properties. <i>Acta Biomaterialia</i> , 2014 , 10, 3475-83	10.8	6
16	SEX AND VASCULAR BIOMECHANICS: A HYPOTHESIS FOR THE MECHANISM UNDERLYING DIFFERENCES IN THE PREVALENCE OF ABDOMINAL AORTIC ANEURYSMS IN MEN AND WOMEN. <i>Transactions of the American Clinical and Climatological Association</i> , 2016 , 127, 148-161	0.9	6
15	In vivo quantification of regional circumferential Green strain in the thoracic and abdominal aorta by 2D spiral cine DENSE MRI. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	6
14	Thyroid hormone plus dual-specificity phosphatase-5 siRNA increases the number of cardiac muscle cells and improves left ventricular contractile function in chronic doxorubicin-injured hearts. <i>Theranostics</i> , 2021 , 11, 4790-4808	12.1	5
13	Impaired Collateral Vessel Formation in Sickle Cell Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1125-1133	9.4	4

12	Overexpression of myeloid angiotensin-converting enzyme (ACE) reduces atherosclerosis. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 520, 573-579	3.4	4
11	Proangiogenic cell colonies grown in vitro from human peripheral blood mononuclear cells. <i>Journal of Biomolecular Screening</i> , 2012 , 17, 1128-35		4
10	Mobilizing bone marrow progenitor cells, a double edge sword. <i>Cardiovascular Drugs and Therapy</i> , 2008 , 22, 339-41	3.9	2
9	Targeting Vascular Epitopes Using Quantum Dots 2008 , 443-461		2
8	Characterization of Poldip2 knockout mice: Avoiding incorrect gene targeting.. <i>PLoS ONE</i> , 2021 , 16, e0247261	3.7	2
7	Mechanical Deformation of the Arterial Wall in Hypertension: A Mechanism for Vascular Pathology. <i>American Journal of the Medical Sciences</i> , 1998 , 316, 156-161	2.2	1
6	Circulating progenitor cells are reduced in HIV-positive, anti-retroviral naïve patients. <i>International Journal of Cardiology</i> , 2014 , 176, 1150-2	3.2	0
5	Satellite Cell Expression of RAGE (Receptor for Advanced Glycation end Products) Is Important for Collateral Vessel Formation. <i>Journal of the American Heart Association</i> , 2021 , 10, e022127	6	0
4	FLOW AND ATHEROSCLEROSIS 2010 , 1-38		
3	Endothelial Progenitor Cells Are Decreased in the Circulation of Patients with Sepsis. <i>FASEB Journal</i> , 2008 , 22, 964.1	0.9	
2	Muscle Stem Cell-Nerve-Vasculature Interactions Modulate Tissue Regeneration Following Critical Limb Ischemia. <i>FASEB Journal</i> , 2019 , 33, 524.2	0.9	
1	Maltohexaose-indocyanine green (MH-ICG) for near infrared imaging of endocarditis. <i>PLoS ONE</i> , 2021 , 16, e0247673	3.7	