

Jason L Johnson

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.

105
papers

5,423
citations

42
h-index

72
g-index

115
ext. papers

5,938
ext. citations

6.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
105	TGF-beta activity protects against inflammatory aortic aneurysm progression and complications in angiotensin II-infused mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 422-32	15.9	286
104	Hydrogen sensing using pd-functionalized multi-layer graphene nanoribbon networks. <i>Advanced Materials</i> , 2010 , 22, 4877-80	24	280
103	Divergent effects of matrix metalloproteinases 3, 7, 9, and 12 on atherosclerotic plaque stability in mouse brachiocephalic arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15575-80	11.5	272
102	Plaque rupture after short periods of fat feeding in the apolipoprotein E-knockout mouse: model characterization and effects of pravastatin treatment. <i>Circulation</i> , 2005 , 111, 1422-30	16.7	218
101	Activation of matrix-degrading metalloproteinases by mast cell proteases in atherosclerotic plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998 , 18, 1707-15	9.4	208
100	Atherosclerotic plaque rupture in the apolipoprotein E knockout mouse. <i>Atherosclerosis</i> , 2001 , 154, 399-406	9.6	190
99	Characteristics of intact and ruptured atherosclerotic plaques in brachiocephalic arteries of apolipoprotein E knockout mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 788-92	9.4	185
98	Adenovirus-mediated gene transfer of the human TIMP-1 gene inhibits smooth muscle cell migration and neointimal formation in human saphenous vein. <i>Human Gene Therapy</i> , 1998 , 9, 867-77	4.8	185
97	Genetic inactivation of IL-1 signaling enhances atherosclerotic plaque instability and reduces outward vessel remodeling in advanced atherosclerosis in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 70-9	15.9	142
96	Macrophage heterogeneity in atherosclerotic plaques. <i>Current Opinion in Lipidology</i> , 2009 , 20, 370-8	4.4	134
95	A selective matrix metalloproteinase-12 inhibitor retards atherosclerotic plaque development in apolipoprotein E-knockout mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 528-35	9.4	124
94	Suppression of atherosclerotic plaque progression and instability by tissue inhibitor of metalloproteinase-2: involvement of macrophage migration and apoptosis. <i>Circulation</i> , 2006 , 113, 2435-44	16.7	120
93	Matrix metalloproteinases: influence on smooth muscle cells and atherosclerotic plaque stability. <i>Expert Review of Cardiovascular Therapy</i> , 2007 , 5, 265-82	2.5	118
92	Classical macrophage activation up-regulates several matrix metalloproteinases through mitogen activated protein kinases and nuclear factor- κ B. <i>PLoS ONE</i> , 2012 , 7, e42507	3.7	117
91	Wnt4/E-catenin signaling induces VSMC proliferation and is associated with intimal thickening. <i>Circulation Research</i> , 2011 , 108, 427-36	15.7	114
90	Matrix metalloproteinase (MMP)-3 activates MMP-9 mediated vascular smooth muscle cell migration and neointima formation in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, e35-44	9.4	109
89	Vulnerable atherosclerotic plaque metalloproteinases and foam cell phenotypes. <i>Thrombosis and Haemostasis</i> , 2009 , 101, 1006-1011	7	106

88	Metalloproteinases in atherosclerosis. <i>European Journal of Pharmacology</i> , 2017 , 816, 93-106	5.3	103
87	Emerging regulators of vascular smooth muscle cell function in the development and progression of atherosclerosis. <i>Cardiovascular Research</i> , 2014 , 103, 452-60	9.9	100
86	MicroRNA-181b Controls Atherosclerosis and Aneurysms Through Regulation of TIMP-3 and Elastin. <i>Circulation Research</i> , 2017 , 120, 49-65	15.7	98
85	Assessment of unstable atherosclerosis in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 714-20	9.4	97
84	MicroRNA-24 regulates macrophage behavior and retards atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1990-2000	9.4	85
83	Room temperature hydrogen detection using Pd-coated GaN nanowires. <i>Applied Physics Letters</i> , 2008 , 93, 072109	3.4	84
82	Injury induces dedifferentiation of smooth muscle cells and increased matrix-degrading metalloproteinase activity in human saphenous vein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 1146-51	9.4	79
81	Hydrogen sensing with Pt-functionalized GaN nanowires. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 196-199	8.5	77
80	MMP-7 mediates cleavage of N-cadherin and promotes smooth muscle cell apoptosis. <i>Cardiovascular Research</i> , 2010 , 87, 137-46	9.9	74
79	Long-term reduction of medial and intimal thickening in porcine saphenous vein grafts with a polyglactin biodegradable external sheath. <i>Journal of Vascular Surgery</i> , 2004 , 40, 1011-9	3.5	66
78	Low tissue inhibitor of metalloproteinases 3 and high matrix metalloproteinase 14 levels defines a subpopulation of highly invasive foam-cell macrophages. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1647-53	9.4	62
77	Non-coding RNAs in cardiovascular cell biology and atherosclerosis. <i>Cardiovascular Research</i> , 2019 , 115, 1732-1756	9.9	60
76	Nitride and oxide semiconductor nanostructured hydrogen gas sensors. <i>Semiconductor Science and Technology</i> , 2010 , 25, 024002	1.8	59
75	Genomics of foam cells and nonfoamy macrophages from rabbits identifies arginase-I as a differential regulator of nitric oxide production. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 571-7	9.4	57
74	Effect of broad-spectrum matrix metalloproteinase inhibition on atherosclerotic plaque stability. <i>Cardiovascular Research</i> , 2006 , 71, 586-95	9.9	53
73	Sustained reduction of vein graft neointima formation by ex vivo TIMP-3 gene therapy. <i>Circulation</i> , 2011 , 124, S135-42	16.7	52
72	An external, oversized, porous polyester stent reduces vein graft neointima formation, cholesterol concentration, and vascular cell adhesion molecule 1 expression in cholesterol-fed pigs. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002 , 124, 950-6	1.5	51
71	A bioabsorbable (polyglactin), nonrestrictive, external sheath inhibits porcine saphenous vein graft thickening. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004 , 127, 1766-72	1.5	50

70	Vulnerable atherosclerotic plaque metalloproteinases and foam cell phenotypes. <i>Thrombosis and Haemostasis</i> , 2009 , 101, 1006-11	7	49
69	Experimental characterization of single-walled carbon nanotube film-Si Schottky contacts using metal-semiconductor-metal structures. <i>Applied Physics Letters</i> , 2008 , 92, 243116	3.4	48
68	Macro-porosity is necessary for the reduction of neointimal and medial thickening by external stenting of porcine saphenous vein bypass grafts. <i>Atherosclerosis</i> , 2001 , 155, 329-36	3.1	48
67	Relationship of MMP-14 and TIMP-3 expression with macrophage activation and human atherosclerotic plaque vulnerability. <i>Mediators of Inflammation</i> , 2014 , 2014, 276457	4.3	47
66	The endothelin 1A receptor antagonist BSF 302146 is a potent inhibitor of neointimal and medial thickening in porcine saphenous vein-carotid artery interposition grafts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004 , 127, 1317-22	1.5	46
65	Soluble N-cadherin overexpression reduces features of atherosclerotic plaque instability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 195-201	9.4	43
64	Interruption of the OX40-OX40 ligand pathway in LDL receptor-deficient mice causes regression of atherosclerosis. <i>Journal of Immunology</i> , 2013 , 191, 4573-80	5.3	42
63	Carotid atherosclerotic plaque matrix metalloproteinase-12-positive macrophage subpopulation predicts adverse outcome after endarterectomy. <i>Journal of the American Heart Association</i> , 2012 , 1, e001040	6	41
62	Relationship between type IV collagen degradation, metalloproteinase activity and smooth muscle cell migration and proliferation in cultured human saphenous vein. <i>Cardiovascular Research</i> , 2003 , 58, 679-88	9.9	41
61	Experimental study of graphitic nanoribbon films for ammonia sensing. <i>Journal of Applied Physics</i> , 2011 , 109, 124301	2.5	39
60	Growth and Characterization of GaN Nanowires for Hydrogen Sensors. <i>Journal of Electronic Materials</i> , 2009 , 38, 490-494	1.9	37
59	Role of colony-stimulating factors in atherosclerosis. <i>Current Opinion in Lipidology</i> , 2012 , 23, 412-21	4.4	37
58	Wnt2 and WISP-1/CCN4 Induce Intimal Thickening via Promotion of Smooth Muscle Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 1417-24	9.4	37
57	Metal-semiconductor-metal photodetectors based on single-walled carbon nanotube film-GaAs Schottky contacts. <i>Journal of Applied Physics</i> , 2008 , 103, 114315	2.5	34
56	Animal models of spontaneous plaque rupture: the holy grail of experimental atherosclerosis research. <i>Current Atherosclerosis Reports</i> , 2002 , 4, 238-42	6	33
55	Embolic protection device utilization during stenting of native coronary artery lesions with large lipid core plaques as detected by near-infrared spectroscopy. <i>Catheterization and Cardiovascular Interventions</i> , 2012 , 80, 1157-62	2.7	32
54	Plasmin-mediated fibroblast growth factor-2 mobilisation supports smooth muscle cell proliferation in human saphenous vein. <i>Journal of Vascular Research</i> , 2001 , 38, 492-501	1.9	30
53	Differential effects of tissue inhibitor of metalloproteinase (TIMP)-1 and TIMP-2 on atherosclerosis and monocyte/macrophage invasion. <i>Cardiovascular Research</i> , 2016 , 109, 318-30	9.9	29

52	Platelet-Associated Matrix Metalloproteinases Regulate Thrombus Formation and Exert Local Collagenolytic Activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 2554-61	9.4	27
51	Near Infrared Fluorescence (NIRF) Molecular Imaging of Oxidized LDL with an Autoantibody in Experimental Atherosclerosis. <i>Scientific Reports</i> , 2016 , 6, 21785	4.9	27
50	Wnt5a-induced Wnt1-inducible secreted protein-1 suppresses vascular smooth muscle cell apoptosis induced by oxidative stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2449-56	9.4	26
49	Genetic strategies to elucidate the roles of matrix metalloproteinases in atherosclerotic plaque growth and stability. <i>Circulation Research</i> , 2005 , 97, 958-60	15.7	26
48	Classical and Alternative Activation and Metalloproteinase Expression Occurs in Foam Cell Macrophages in Male and Female ApoE Null Mice in the Absence of T and B Lymphocytes. <i>Frontiers in Immunology</i> , 2014 , 5, 537	8.4	24
47	Short-term exposure to thapsigargin inhibits neointima formation in human saphenous vein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997 , 17, 2500-6	9.4	24
46	A dose-finding and pharmacokinetic study of the matrix metalloproteinase inhibitor MMI270 (previously termed CGS27023A) with 5-FU and folinic acid. <i>Cancer Chemotherapy and Pharmacology</i> , 2005 , 55, 39-46	3.5	24
45	Elucidating the contributory role of microRNA to cardiovascular diseases (a review). <i>Vascular Pharmacology</i> , 2019 , 114, 31-48	5.9	23
44	Transforming growth factor-beta is activated by plasmin and inhibits smooth muscle cell death in human saphenous vein. <i>Journal of Vascular Research</i> , 2005 , 42, 247-54	1.9	22
43	GaN nanowire and Ga ₂ O ₃ nanowire and nanoribbon growth from ion implanted iron catalyst. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1841-1847		20
42	Hematopoietic sphingosine 1-phosphate lyase deficiency decreases atherosclerotic lesion development in LDL-receptor deficient mice. <i>PLoS ONE</i> , 2013 , 8, e63360	3.7	19
41	Galectin-3 Identifies a Subset of Macrophages With a Potential Beneficial Role in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 1491-1509	9.4	19
40	Functional and cardioprotective effects of simultaneous and individual activation of protein kinase A and Epac. <i>British Journal of Pharmacology</i> , 2017 , 174, 438-453	8.6	18
39	Nitric oxide-donating aspirin (NCX 4016) inhibits neointimal thickening in a pig model of saphenous vein-carotid artery interposition grafting: a comparison with aspirin and morpholinosydnonimine (SIN-1). <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 1033-9	1.5	15
38	In situ zymography. <i>Methods in Molecular Biology</i> , 2010 , 622, 271-7	1.4	15
37	Magnetic resonance imaging visualization of vulnerable atherosclerotic plaques at the brachiocephalic artery of apolipoprotein E knockout mice by the blood-pool contrast agent B22956/1. <i>Molecular Imaging</i> , 2014 , 13,	3.7	14
36	Field-emission properties of individual GaN nanowires grown by chemical vapor deposition. <i>Journal of Applied Physics</i> , 2012 , 111, 044308	2.5	13
35	The anti-atherogenic cytokine interleukin-33 inhibits the expression of a disintegrin and metalloproteinase with thrombospondin motifs-1, -4 and -5 in human macrophages: Requirement of extracellular signal-regulated kinase, c-Jun N-terminal kinase and phosphoinositide 3-kinase signaling pathways. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 46, 119-23	5.6	12

34	Aging differentially modulates the Wnt pro-survival signalling pathways in vascular smooth muscle cells. <i>Aging Cell</i> , 2019 , 18, e12844	9.9	12
33	The association of platelet-derived growth factor receptor expression, plaque morphology and histological features with symptoms in carotid atherosclerosis. <i>Vascular</i> , 2000 , 8, 121-9		11
32	cAMP-induced actin cytoskeleton remodelling inhibits MKL1-dependent expression of the chemotactic and pro-proliferative factor, CCN1. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 79, 157-68	5.8	10
31	Aneurysm Severity is Increased by Combined Mmp-7 Deletion and N-cadherin Mimetic (EC4-Fc) Over-Expression. <i>Scientific Reports</i> , 2017 , 7, 17342	4.9	10
30	In vitro and in vivo analysis of expression cassettes designed for vascular gene transfer. <i>Gene Therapy</i> , 2008 , 15, 340-6	4	9
29	Orally administered penicillamine is a potent inhibitor of neointimal and medial thickening in porcine saphenous vein-carotid artery interposition grafts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 133, 494-500	1.5	9
28	NF- κ B inhibition prevents acute shear stress-induced inflammation in the saphenous vein graft endothelium. <i>Scientific Reports</i> , 2020 , 10, 15133	4.9	9
27	Localized Growth of Carbon Nanotubes on CMOS Substrate at Room Temperature Using Maskless Post-CMOS Processing. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 16-20	2.6	8
26	Matrix metalloproteinases and their inhibitors in cardiovascular pathologies: current knowledge and clinical potential. <i>Metalloproteinases in Medicine</i> , 2014 , 21	0.7	7
25	Carotid artery ligation induced intimal thickening and proliferation is unaffected by ageing. <i>Journal of Cell Communication and Signaling</i> , 2018 , 12, 529-537	5.2	6
24	In situ zymography. <i>Methods in Molecular Biology</i> , 2001 , 151, 411-5	1.4	5
23	Cathepsin K Deficiency Prevents the Aggravated Vascular Remodeling Response to Flow Cessation in ApoE ^{-/-} Mice. <i>PLoS ONE</i> , 2016 , 11, e0162595	3.7	5
22	EC4, a truncation of soluble N-cadherin, reduces vascular smooth muscle cell apoptosis and markers of atherosclerotic plaque instability. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014 , 1, 14004	6.4	4
21	Increased expression of Wnt5A in unstable atherosclerotic plaques is associated with increased MMP expression and may contribute to instability. <i>Atherosclerosis</i> , 2010 , 213, e12	3.1	3
20	Statin pleiotropism and atherosclerotic plaque rupture. <i>Atherosclerosis</i> , 2009 , 206, 353-354	3.1	3
19	Genetic inactivation of IL-1 signaling enhances atherosclerotic plaque instability and reduces outward vessel remodeling in advanced atherosclerosis in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 783-783	15.9	3
18	Disparate effects of MMP and TIMP modulation on coronary atherosclerosis and associated myocardial fibrosis. <i>Scientific Reports</i> , 2021 , 11, 23081	4.9	3
17	Role of Matrix Metalloproteinases in the Development and Progression of Atherosclerosis 2017 , 425-446		2

16	Aneurysm severity is suppressed by deletion of CCN4. <i>Journal of Cell Communication and Signaling</i> , 2021 , 15, 421-432	5.2	2
15	C Development of Whole Body and Intravascular Near-infrared Optical Molecular Imaging of Markers of Plaque Vulnerability in Atherosclerosis. <i>Heart</i> , 2014 , 100, A128.1-A128	5.1	1
14	Smoking alters hydroxyprostaglandin dehydrogenase expression in fetal membranes. <i>Reproductive Toxicology</i> , 2018 , 82, 18-24	3.4	1
13	Effective decellularisation of human saphenous veins for biocompatible arterial tissue engineering applications: Bench optimisation and feasibility in vivo testing. <i>Journal of Tissue Engineering</i> , 2021 , 12, 2041731420987529	7.5	1
12	Monitoring Cellular Proliferation, Migration, and Apoptosis Associated with Atherosclerosis Plaques In Vitro.. <i>Methods in Molecular Biology</i> , 2022 , 2419, 133-167	1.4	1
11	A Protocol for a Novel Human Model of Aneurysm. <i>STAR Protocols</i> , 2020 , 1, 100108	1.4	
10	Ion Implanted SiO ₂ Substrates for Nucleating Silicon Oxide Nanowire Growth. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1181, 90		
9	Micromachined Silicon Grids for Direct TEM Characterization of Carbon Nanotubes Grown by CVD. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 963, 1		
8	Metal-Semiconductor-Metal (MSM) Photodetectors Based on Single-walled Carbon Nanotube Film-GaAs Schottky Contacts. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1057, 1		
7	Animal Models of Vulnerable Plaque 2004 , 35-52		
6	Role of Matrix Metalloproteinases in Atherosclerosis 2014 , 247-262		
5	P33 NRF2-MEDIATED UPREGULATION OF OSGIN1 AND OSGIN2 TRIGGERS CELL DETACHMENT THROUGH DYSREGULATED AUTOPHAGY [A POTENTIAL MECHANISM FOR ENDOTHELIAL EROSION OVERLYING STENOTIC PLAQUES. <i>Cardiovascular Research</i> , 2018 , 114, S10-S10	9.9	
4	Monitoring Cellular Proliferation and Apoptosis in Atherosclerosis Plaques and Intimal Thickenings.. <i>Methods in Molecular Biology</i> , 2022 , 2419, 507-519	1.4	
3	Investigation of Atherosclerotic Plaque Vulnerability.. <i>Methods in Molecular Biology</i> , 2022 , 2419, 521-535	1.4	
2	Use of Mouse Carotid Artery Ligation Model of Intimal Thickening to Probe Vascular Smooth Muscle Cell Remodeling and Function in Atherosclerosis.. <i>Methods in Molecular Biology</i> , 2022 , 2419, 537-560	1.4	
1	Modulators of Monocyte and Macrophage Phenotypes in Atherosclerosis 2022 , 365-386		