

Jason L Johnson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7482828/publications.pdf>

Version: 2024-02-01

114
papers

6,570
citations

53789

45
h-index

64791

79
g-index

115
all docs

115
docs citations

115
times ranked

8264
citing authors

#	ARTICLE	IF	CITATIONS
1	TGF- β 2 activity protects against inflammatory aortic aneurysm progression and complications in angiotensin II-infused mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 422-432.	8.2	352
2	Hydrogen Sensing Using Pd-Functionalized Multi-Layer Graphene Nanoribbon Networks. <i>Advanced Materials</i> , 2010, 22, 4877-4880.	21.0	313
3	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, 15575-15580.	7.1	308
4	Plaque Rupture After Short Periods of Fat Feeding in the Apolipoprotein E Knockout Mouse. <i>Circulation</i> , 2005, 111, 1422-1430.	1.6	235
5	Activation of Matrix-Degrading Metalloproteinases by Mast Cell Proteases in Atherosclerotic Plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998, 18, 1707-1715.	2.4	234
6	Characteristics of Intact and Ruptured Atherosclerotic Plaques in Brachiocephalic Arteries of Apolipoprotein E Knockout Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 788-792.	2.4	216
7	Atherosclerotic plaque rupture in the apolipoprotein E knockout mouse. <i>Atherosclerosis</i> , 2001, 154, 399-406.	0.8	213
8	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, 867-877.	2.7	201
9	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, 70-79.	8.2	183
10	Macrophage heterogeneity in atherosclerotic plaques. <i>Current Opinion in Lipidology</i> , 2009, 20, 370-378.	2.7	151
11	Metalloproteinases in atherosclerosis. <i>European Journal of Pharmacology</i> , 2017, 816, 93-106.	3.5	151
12	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.	2.5	148
13	Matrix metalloproteinases: influence on smooth muscle cells and atherosclerotic plaque stability. <i>Expert Review of Cardiovascular Therapy</i> , 2007, 5, 265-282.	1.5	144
14	A Selective Matrix Metalloproteinase-12 Inhibitor Retards Atherosclerotic Plaque Development in Apolipoprotein E Knockout Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 528-535.	2.4	144
15	Vulnerable atherosclerotic plaque metalloproteinases and foam cell phenotypes. <i>Thrombosis and Haemostasis</i> , 2009, 101, 1006-1011.	3.4	143
16	Suppression of Atherosclerotic Plaque Progression and Instability by Tissue Inhibitor of Metalloproteinase-2. <i>Circulation</i> , 2006, 113, 2435-2444.	1.6	142
17	Wnt4/ β -Catenin Signaling Induces VSMC Proliferation and Is Associated With Intimal Thickening. <i>Circulation Research</i> , 2011, 108, 427-436.	4.5	140
18	Non-coding RNAs in cardiovascular cell biology and atherosclerosis. <i>Cardiovascular Research</i> , 2019, 115, 1732-1756.	3.8	138

#	ARTICLE	IF	CITATIONS
19	MicroRNA-181b Controls Atherosclerosis and Aneurysms Through Regulation of TIMP-3 and Elastin. <i>Circulation Research</i> , 2017, 120, 49-65.	4.5	125
20	Emerging regulators of vascular smooth muscle cell function in the development and progression of atherosclerosis. <i>Cardiovascular Research</i> , 2014, 103, 452-460.	3.8	123
21	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.	2.4	122
22	Assessment of Unstable Atherosclerosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 714-720.	2.4	111
23	MicroRNA-24 Regulates Macrophage Behavior and Retards Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1990-2000.	2.4	98
24	Room temperature hydrogen detection using Pd-coated GaN nanowires. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	91
25	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, 1146-1151.	2.4	90
26	MMP-7 mediates cleavage of N-cadherin and promotes smooth muscle cell apoptosis. <i>Cardiovascular Research</i> , 2010, 87, 137-146.	3.8	90
27	Hydrogen sensing with Pt-functionalized GaN nanowires. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 196-199.	7.8	82
28	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, 1011-1019.	1.1	71
29	Effect of broad-spectrum matrix metalloproteinase inhibition on atherosclerotic plaque stability. <i>Cardiovascular Research</i> , 2006, 71, 586-595.	3.8	70
30	Nitride and oxide semiconductor nanostructured hydrogen gas sensors. <i>Semiconductor Science and Technology</i> , 2010, 25, 024002.	2.0	68
31	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, 1647-1653.	2.4	67
32	Sustained Reduction of Vein Graft Neointima Formation by Ex Vivo TIMP-3 Gene Therapy. <i>Circulation</i> , 2011, 124, S135-42.	1.6	65
33	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, 571-577.	2.4	62
34	A bioabsorbable (polyglactin), nonrestrictive, external sheath inhibits porcine saphenous vein graft thickening. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 127, 1766-1772.	0.8	60
35	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, 950-956.	0.8	58
36	Relationship of MMP-14 and TIMP-3 Expression with Macrophage Activation and Human Atherosclerotic Plaque Vulnerability. <i>Mediators of Inflammation</i> , 2014, 2014, 1-17.	3.0	57

#	ARTICLE	IF	CITATIONS
37	Experimental characterization of single-walled carbon nanotube film-Si Schottky contacts using metal-semiconductor-metal structures. <i>Applied Physics Letters</i> , 2008, 92, 243116.	3.3	53
38	Vulnerable atherosclerotic plaque metalloproteinases and foam cell phenotypes. <i>Thrombosis and Haemostasis</i> , 2009, 101, 1006-11.	3.4	53
39	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, 329-336.	0.8	52
40	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, 679-688.	3.8	52
41	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, 1317-1322.	0.8	52
42	Interruption of the OX40 OX40 Ligand Pathway in LDL Receptor Deficient Mice Causes Regression of Atherosclerosis. <i>Journal of Immunology</i> , 2013, 191, 4573-4580.	0.8	51
43	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.	3.7	49
44	Galactin-3 Identifies a Subset of Macrophages With a Potential Beneficial Role in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1491-1509.	2.4	49
45	Role of colony-stimulating factors in atherosclerosis. <i>Current Opinion in Lipidology</i> , 2012, 23, 412-421.	2.7	47
46	Wnt2 and WISP-1/CCN4 Induce Intimal Thickening via Promotion of Smooth Muscle Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1417-1424.	2.4	47
47	Soluble N-Cadherin Overexpression Reduces Features of Atherosclerotic Plaque Instability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 195-201.	2.4	46
48	Experimental study of graphitic nanoribbon films for ammonia sensing. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	45
49	Differential effects of tissue inhibitor of metalloproteinase (TIMP)-1 and TIMP-2 on atherosclerosis and monocyte/macrophage invasion. <i>Cardiovascular Research</i> , 2016, 109, 318-330.	3.8	44
50	Growth and Characterization of GaN Nanowires for Hydrogen Sensors. <i>Journal of Electronic Materials</i> , 2009, 38, 490-494.	2.2	42
51	Elucidating the contributory role of microRNA to cardiovascular diseases (a review). <i>Vascular Pharmacology</i> , 2019, 114, 31-48.	2.1	42
52	Platelet-Associated Matrix Metalloproteinases Regulate Thrombus Formation and Exert Local Collagenolytic Activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2554-2561.	2.4	38
53	Near Infrared Fluorescence (NIRF) Molecular Imaging of Oxidized LDL with an Autoantibody in Experimental Atherosclerosis. <i>Scientific Reports</i> , 2016, 6, 21785.	3.3	38
54	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	37

#	ARTICLE	IF	CITATIONS
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, 1157-1162.	1.7	37
56	Animal models of spontaneous plaque rupture: The holy grail of experimental atherosclerosis research. <i>Current Atherosclerosis Reports</i> , 2002, 4, 238-242.	4.8	36
57	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, 2449-2456.	2.4	36
58	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.	4.8	35
59	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.	1.4	34
60	Short-term Exposure to Thapsigargin Inhibits Neointima Formation in Human Saphenous Vein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 17, 2500-2506.	2.4	31
61	Genetic Strategies to Elucidate the Roles of Matrix Metalloproteinases in Atherosclerotic Plaque Growth and Stability. <i>Circulation Research</i> , 2005, 97, 958-960.	4.5	31
62	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.	2.3	26
63	Hematopoietic Sphingosine 1-Phosphate Lyase Deficiency Decreases Atherosclerotic Lesion Development in LDL-Receptor Deficient Mice. <i>PLoS ONE</i> , 2013, 8, e63360.	2.5	26
64	Transforming Growth Factor- β 2 Is Activated by Plasmin and Inhibits Smooth Muscle Cell Death in Human Saphenous Vein. <i>Journal of Vascular Research</i> , 2005, 42, 247-254.	1.4	25
65	NF- κ B inhibition prevents acute shear stress-induced inflammation in the saphenous vein graft endothelium. <i>Scientific Reports</i> , 2020, 10, 15133.	3.3	24
66	Aging differentially modulates the Wnt pro-survival signalling pathways in vascular smooth muscle cells. <i>Aging Cell</i> , 2019, 18, e12844.	6.7	23
67	Disparate effects of MMP and TIMP modulation on coronary atherosclerosis and associated myocardial fibrosis. <i>Scientific Reports</i> , 2021, 11, 23081.	3.3	22
68	In Situ Zymography. <i>Methods in Molecular Biology</i> , 2010, 622, 271-277.	0.9	21
69	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.	1.3	20
70	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, 113-123.	2.8	20
71	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.	5.4	20
72	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 morpholinonydnonimine (SIN-1). <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 134, 1033-1039.	0.8	18

#	ARTICLE	IF	CITATIONS
73	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, 157-168.	1.9	17
74	Field-emission properties of individual GaN nanowires grown by chemical vapor deposition. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	16
75	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, 7290.2014.00012.	1.4	16
76	Aneurysm Severity is Increased by Combined Mmp-7 Deletion and N-cadherin Mimetic (EC4-Fc) Over-Expression. <i>Scientific Reports</i> , 2017, 7, 17342.	3.3	13
77	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.	0.8	12
78	In vitro and in vivo analysis of expression cassettes designed for vascular gene transfer. <i>Gene Therapy</i> , 2008, 15, 340-346.	4.5	12
79	The association of platelet-derived growth factor receptor expression, plaque morphology and histological features with symptoms in carotid atherosclerosis. <i>Vascular</i> , 2000, 8, 121-129.	0.5	11
80	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.	2.0	11
81	Matrix metalloproteinases and their inhibitors in cardiovascular pathologies: current knowledge and clinical potential. <i>Metalloproteinases in Medicine</i> , 0, , 21.	1.0	9
82	Cathepsin K Deficiency Prevents the Aggravated Vascular Remodeling Response to Flow Cessation in ApoE ^{-/-} Mice. <i>PLoS ONE</i> , 2016, 11, e0162595.	2.5	9
83	Carotid artery ligation induced intimal thickening and proliferation is unaffected by ageing. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 529-537.	3.4	8
84	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.	0.8	6
85	In Situ Zymography. , 2001, 151, 411-415.		5
86	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.	4.1	5
87	Aneurysm severity is suppressed by deletion of CCN4. <i>Journal of Cell Communication and Signaling</i> , 2021, 15, 421-432.	3.4	5
88	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, 204173142098752.	5.5	5
89	Statin pleiotropism and atherosclerotic plaque rupture. <i>Atherosclerosis</i> , 2009, 206, 353-354.	0.8	4
90	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.	8.2	3

#	ARTICLE	IF	CITATIONS
91	Monitoring Cellular Proliferation, Migration, and Apoptosis Associated with Atherosclerosis Plaques In Vitro. <i>Methods in Molecular Biology</i> , 2022, 2419, 133-167.	0.9	3
92	Role of Matrix Metalloproteinases in the Development and Progression of Atherosclerosis. , 2017, , 425-446.		2
93	Monoclonal Autoantibody Against a Cryptic Epitope on Tissue-Adherent Low-Density Lipoprotein for Molecular Imaging in Atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2022, , .	5.3	2
94	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.	2.9	1
95	Smoking alters hydroxyprostaglandin dehydrogenase expression in fetal membranes. <i>Reproductive Toxicology</i> , 2018, 82, 18-24.	2.9	1
96	BS26 Generation of a tissue engineered conduit from human saphenous vein and porcine blood outgrowth endothelial cells. , 2019, , .		1
97	A Protocol for a Novel Human Ex Vivo Model of Aneurysm. <i>STAR Protocols</i> , 2020, 1, 100108.	1.2	1
98	The predictive potential of circulating microRNA for future cardiovascular events. <i>Cardiovascular Research</i> , 2021, 117, 1-3.	3.8	1
99	Investigation of Atherosclerotic Plaque Vulnerability. <i>Methods in Molecular Biology</i> , 2022, 2419, 521-535.	0.9	1
100	Use of Mouse Carotid Model of Intimal to Probe Vascular Smooth Muscle Remodeling and Function in. <i>Methods in Molecular Biology</i> , 2022, 2419, 537-560.	0.9	1
101	Development and Preliminary Testing of Porcine Blood-Derived Endothelial-like Cells for Vascular Tissue Engineering Applications: Protocol Optimisation and Seeding of Decellularised Human Saphenous Veins. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6633.	4.1	1
102	Micromachined Silicon Grids for Direct TEM Characterization of Carbon Nanotubes Grown by CVD. <i>Materials Research Society Symposia Proceedings</i> , 2006, 963, 1.	0.1	0
103	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.	0.1	0
104	EFFECTS OF TISSUE INHIBITOR OF METALLOPROTEINASE (TIMP) DEFICIENCY ON MACROPHAGE INFILTRATION, PLAQUE STABILITY AND PSEUDO-ANEURYSMS. <i>Atherosclerosis</i> , 2008, 199, 466.	0.8	0
105	Defect Noise Spectroscopy Results for GaN Nanowires. , 2009, , .		0
106	Ion Implanted SiO ₂ Substrates for Nucleating Silicon Oxide Nanowire Growth. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1181, 90.	0.1	0
107	Matrix metalloproteinase-10: A product of classically-activated plaque macrophages with a putative role in collagenolysis. <i>Vascular Pharmacology</i> , 2012, 56, 319.	2.1	0
108	Metalloproteinases in atherosclerotic plaques – A matter of life or death. <i>Vascular Pharmacology</i> , 2012, 56, 336.	2.1	0

#	ARTICLE	IF	CITATIONS
109	P33â€œNRF2-MEDIATED UPREGULATION OF OSGIN1 AND OSGIN2 TRIGGERS CELL DETACHMENT THROUGH DYSREGULATED AUTOPHAGY â€œ A POTENTIAL MECHANISM FOR ENDOTHELIAL EROSION OVERLYING STENOTIC PLAQUES. Cardiovascular Research, 2018, 114, S10-S10.	3.8	0
110	143â€œ..A pivotal role for NRF2 in endothelial detachmentâ€œimplications for endothelial erosion of stenotic plaques. , 2019, , .		0
111	Animal Models of Vulnerable Plaque. , 2004, , 35-52.		0
112	Role of Matrix Metalloproteinases in Atherosclerosis. , 2014, , 247-262.		0
113	Monitoring Cellular and in Plaques and. Methods in Molecular Biology, 2022, 2419, 507-519.	0.9	0
114	Modulators of Monocyte and Macrophage Phenotypes in Atherosclerosis. , 0, , 365-386.		0