Zorina S Galis

List of Publications by Citations

80 papers	9,199 citations	42 h-index	86 g-index
86 ext. papers	10,382 ext. citations	10.4 avg, IF	5.45 L-index

#	Paper	IF	Citations
80	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part I. *Circulation*, **2003**, 108, 1664-72	16.7	1985
79	From vulnerable plaque to vulnerable patient: a call for new definitions and risk assessment strategies: Part II. *Circulation*, **2003**, 108, 1772-8	16.7	886
78	The effect of scaffold degradation rate on three-dimensional cell growth and angiogenesis. *Biomaterials*, **2004**, 25, 5735-42	15.6	613
77	Vascular contributions to cognitive impairment and dementia including Alzheimer's disease. *Alzheimer's and Dementia*, **2015**, 11, 710-7	1.2	364
76	Targeted disruption of the matrix metalloproteinase-9 gene impairs smooth muscle cell migration and geometrical arterial remodeling. *Circulation Research*, **2002**, 91, 852-9	15.7	348
75	Ischemia and No Obstructive Coronary Artery Disease (INOCA): Developing Evidence-Based Therapies and Research Agenda for the Next Decade. *Circulation*, **2017**, 135, 1075-1092	16.7	293
74	Matrix metalloproteinase-2 and -9 differentially regulate smooth muscle cell migration and cell-mediated collagen organization. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 54-60	9.4	250
73	Cytokines regulate vascular functions related to stability of the atherosclerotic plaque. *Journal of Cardiovascular Pharmacology*, **1995**, 25 Suppl 2, S9-12	3.1	245
72	Enhanced expression of vascular matrix metalloproteinases induced in vitro by cytokines and in regions of human atherosclerotic lesions. *Annals of the New York Academy of Sciences*, **1995**, 748, 501-7	6.5	203
71	Plaque rupture in humans and mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 705-13	9.4	202
70	Vascular oxidant stress enhances progression and angiogenesis of experimental atheroma. *Circulation*, **2004**, 109, 520-5	16.7	190
69	Remodeling of carotid artery is associated with increased expression of matrix metalloproteinases in mouse blood flow cessation model. *Circulation*, **2000**, 102, 2861-6	16.7	166
68	Matrix metalloproteinase-9 is required for adequate angiogenic revascularization of ischemic tissues: potential role in capillary branching. *Circulation Research*, **2004**, 94, 262-8	15.7	157
67	Increased expression of matrix metalloproteinase-2 in the thickened intima of aged rats. *Hypertension*, **1999**, 33, 116-23	8.5	157
66	Inflammatory cytokines and oxidized low density lipoproteins increase endothelial cell expression of membrane type 1-matrix metalloproteinase. *Journal of Biological Chemistry*, **1999**, 274, 11924-9	5.4	148
65	Mechanical strain-stimulated remodeling of tissue-engineered blood vessel constructs. *Tissue Engineering*, **2003**, 9, 657-66		147
64	N-acetyl-cysteine decreases the matrix-degrading capacity of macrophage-derived foam cells: new target for antioxidant therapy?. *Circulation*, **1998**, 97, 2445-53	16.7	142

63	Atherosclerotic lesions grow through recruitment and proliferation of circulating monocytes in a murine model. *American Journal of Pathology*, **2002**, 160, 2145-55	5.8	139
62	Extracellular matrix modulates macrophage functions characteristic to atheroma: collagen type I enhances acquisition of resident macrophage traits by human peripheral blood monocytes in vitro. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1998**, 18, 432-40	9.4	129
61	Cyclophilin A as a novel biphasic mediator of endothelial activation and dysfunction. *American Journal of Pathology*, **2004**, 164, 1567-74	5.8	118
60	Uniaxial strain upregulates matrix-degrading enzymes produced by human vascular smooth muscle cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H1778-84	5.2	115
59	The role of matrix metalloproteinase-2 in the remodeling of cell-seeded vascular constructs subjected to cyclic strain. *Annals of Biomedical Engineering*, **2001**, 29, 923-34	4.7	115
58	Matrix Metalloproteinase Hypothesis of Plaque Rupture. *Circulation*, **2001**, 104, 1878-1880	16.7	107
57	Cardiovascular drug development: is it dead or just hibernating?. *Journal of the American College of Cardiology*, **2015**, 65, 1567-82	15.1	104
56	Expansive arterial remodeling: location, location, location. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 650-7	9.4	98
55	Expression of matrix metalloproteinase-9 in endothelial cells is differentially regulated by shear stress. Role of c-Myc. *Journal of Biological Chemistry*, **2003**, 278, 32994-9	5.4	96
54	Expansive arterial remodeling is associated with increased neointimal macrophage foam cell content: the murine model of macrophage-rich carotid artery lesions. *Circulation*, **2002**, 105, 2686-91	16.7	89
53	Thrombin promotes activation of matrix metalloproteinase-2 produced by cultured vascular smooth muscle cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1997**, 17, 483-9	9.4	87
52	Report of the National Heart, Lung, and Blood Institute Working Group on epigenetics and hypertension. *Hypertension*, **2012**, 59, 899-905	8.5	81
51	Role of uncoupled endothelial nitric oxide synthase in abdominal aortic aneurysm formation: treatment with folic acid. *Hypertension*, **2012**, 59, 158-66	8.5	80
50	Atherosclerosis and matrix metalloproteinases: experimental molecular MR imaging in vivo. *Radiology*, **2009**, 251, 429-38	20.5	73
49	Atheroma morphology and mechanical strength: looks are important, after all--lose the fat. *Circulation Research*, **2000**, 86, 1-3	15.7	65
48	Transmural pressure induces matrix-degrading activity in porcine arteries ex vivo. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H2002-9	5.2	63
47	Mechanical stretching of human saphenous vein grafts induces expression and activation of matrix-degrading enzymes associated with vascular tissue injury and repair. *Experimental and Molecular Pathology*, **1999**, 66, 227-37	4.4	63
46	"Small Blood Vessels: Big Health Problems?": Scientific Recommendations of the National Institutes of Health Workshop. *Journal of the American Heart Association*, **2016**, 5,	6	53

45	Myocardial matrix metalloproteinase activity and abundance with congestive heart failure. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 274, H1516-23	5.2	51
44	Matrix metalloproteinase synthesis and expression in isolated LV myocyte preparations. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H777-87	5.2	50
43	Deciphering the Role of Lipid Droplets in Cardiovascular Disease: A Report From the 2017 National Heart, Lung, and Blood Institute Workshop. *Circulation*, **2018**, 138, 305-315	16.7	47
42	Monitoring of arterial wall remodelling in atherosclerotic rabbits with a magnetic resonance imaging contrast agent binding to matrix metalloproteinases. *European Heart Journal*, **2011**, 32, 1561-71	9.5	46
41	Early effects of arterial hemodynamic conditions on human saphenous veins perfused ex vivo. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 1889-95	9.4	45
40	Unlocking the Secrets of Mitochondria in the Cardiovascular System: Path to a Cure in Heart Failure? A Report from the 2018 National Heart, Lung, and Blood Institute Workshop. *Circulation*, **2019**, 140, 1205-1216	16.7	43
39	Cytokines regulate genes involved in atherogenesis. *Annals of the New York Academy of Sciences*, **1995**, 748, 158-68; discussion 168-70	6.5	42
38	National Heart, Lung, and Blood Institute Working Group Report on Salt in Human Health and Sickness: Building on the Current Scientific Evidence. *Hypertension*, **2016**, 68, 281-8	8.5	39
37	Putative murine models of plaque rupture. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 969-72	9.4	38
36	Compensatory vascular remodeling during atherosclerotic lesion growth depends on matrix metalloproteinase-9 activity. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 2123-9	9.4	36
35	Matrix metalloproteinase 9 facilitates collagen remodeling and angiogenesis for vascular constructs. *Tissue Engineering*, **2005**, 11, 267-76		36
34	Vascular contributions to cognitive impairment and dementia (VCID): A report from the 2018 National Heart, Lung, and Blood Institute and National Institute of Neurological Disorders and Stroke Workshop. *Alzheimer's and Dementia*, **2020**, 16, 1714-1733	1.2	36
33	Point-of-Care Technologies for Precision Cardiovascular Care and Clinical Research: National Heart, Lung, and Blood Institute Working Group. *JACC Basic To Translational Science*, **2016**, 1, 73-86	8.7	34
32	Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation: Current Status and Future Directions. *Hypertension*, **2017**,	8.5	33
31	Designer blood vessels and therapeutic revascularization. *British Journal of Pharmacology*, **2003**, 140, 627-36	8.6	33
30	The use of temperature-composition combinatorial libraries to study the effects of biodegradable polymer blend surfaces on vascular cells. *Biomaterials*, **2005**, 26, 4557-67	15.6	33
29	Renal denervation therapy for hypertension: pathways for moving development forward. *Journal of the American Society of Hypertension*, **2015**, 9, 341-50		29
28	Investing in high blood pressure research: a national institutes of health perspective. *Hypertension*, **2013**, 61, 757-61	8.5	27

27	Matrix metalloproteinase-2 and -9 are associated with high stresses predicted using a nonlinear heterogeneous model of arteries. *Journal of Biomechanical Engineering*, **2009**, 131, 011009	2.1	27
26	Vulnerable plaque: the devil is in the details. *Circulation*, **2004**, 110, 244-6	16.7	25
25	Optimization of isolation and functional characterization of primary murine aortic endothelial cells. *Endothelium: Journal of Endothelial Cell Research*, **2003**, 10, 103-9		25
24	Anatomy of success: the top 100 cited scientific reports focused on hypertension research. *Hypertension*, **2014**, 63, 641-7	8.5	24
23	A Special Report on the NHLBI Initiative to Study Cellular and Molecular Mechanisms of Arterial Stiffness and Its Association With Hypertension. *Circulation Research*, **2017**, 121, 1216-1218	15.7	20
22	Shifting Demographics among Research Project Grant Awardees at the National Heart, Lung, and Blood Institute (NHLBI). *PLoS ONE*, **2016**, 11, e0168511	3.7	18
21	Treatment for Mild Chronic Hypertension during Pregnancy.. *New England Journal of Medicine*, **2022**,	59.2	18
20	Report of the National Heart, Lung, and Blood Institute Working Group on Hypertension: Barriers to Translation. *Hypertension*, **2020**, 75, 902-917	8.5	17
19	Exerkines in health, resilience and disease.. *Nature Reviews Endocrinology*, **2022**,	15.2	17
18	Matrix metalloproteinases and vascular endothelium-mononuclear cell close encounters. *Trends in Cardiovascular Medicine*, **2004**, 14, 105-11	6.9	16
17	Implementing the National Heart, Lung, and Blood Institute's Strategic Vision in the Division of Cardiovascular Sciences. *Circulation Research*, **2019**, 124, 491-497	15.7	15
16	Will the real plaque vasculature please stand up? Why we need to distinguish the vasa plaquorum from the vasa vasorum. *Trends in Cardiovascular Medicine*, **2009**, 19, 87-94	6.9	11
15	National Heart, Lung, and Blood Institute and the translation of cardiovascular discoveries into therapeutic approaches. *Circulation Research*, **2013**, 112, 1212-8	15.7	10
14	Exploring the Role of Endothelial Cell Resilience in Cardiovascular Health and Disease. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 179-185	9.4	9
13	Trends in NHLBI-Funded Research on Sex Differences in Hypertension. *Circulation Research*, **2016**, 119, 591-5	15.7	8
12	A fluorescence lifetime spectroscopy study of matrix metalloproteinases-2 and -9 in human atherosclerotic plaque. *Journal of Biophotonics*, **2011**, 4, 650-8	3.1	8
11	On the value of portfolio diversity in heart, lung, and blood research. *Circulation Research*, **2012**, 111, 833-6	15.7	8
10	Neointimal cracks (plaque rupture?) and thrombosis in wrapped arteries without flow. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 248-9; author reply 250-2	9.4	8

9	Quantitative assessment of collagen assembly by live cells. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 775-84		8
8	Proteoglycan synthesis by the neointimal smooth muscle cells cultured from rabbit aortic explants following de-endothelialization. *Pathobiology*, **1993**, 61, 89-94	3.6	7
7	"The Good Old R01": Challenging Downward Funding Success Trends at the National Heart, Lung, and Blood Institute. *Circulation Research*, **2016**, 118, 1475-9	15.7	5
6	Building on a Legacy of Hypertension Research: Charting Our Future Together. *Hypertension*, **2017**, 69, 5-10	8.5	4
5	Sulfated proteoglycans of rabbit aorta: selective extraction and alternative method for glycosaminoglycan moiety analysis. *Analytical Biochemistry*, **1992**, 204, 390-7	3.1	4
4	Angiogenesis Research: Extramural Portfolio Supported by the National Heart, Lung, and Blood Institute, 2008-2015. *Circulation Research*, **2017**, 120, 1713-1717	15.7	2
3	Perspectives on Cognitive Phenotypes and Models of Vascular Disease.. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2022**, 101161ATVBAHA122317395	9.4	1
2	"," Mapping the 25 Year Evolution and Impact of North American Vascular Biology Organization Science Through Publications of its Founding and Current Members. *Frontiers in Research Metrics and Analytics*, **2020**, 5, 591090	1.3	
1	Matrix Metaloproteinases (MMPs) are necessary for flow-induced arterial remodeling. *FASEB Journal*, **2007**, 21, A193	0.9	