Zorina S Galis

List of Publications by Year
in descending order

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85 papers	12,045 citations	50276 46 h-index	56724 83 g-index
86 all docs	86 docs citations	86 times ranked	13703 citing authors

#	Article	IF	Citations
1	From Vulnerable Plaque to Vulnerable Patient. Circulation, 2003, 108, 1664-1672.	1.6	2,308
2	From Vulnerable Plaque to Vulnerable Patient. Circulation, 2003, 108, 1772-1778.	1.6	1,562
3	The effect of scaffold degradation rate on three-dimensional cell growth and angiogenesis. Biomaterials, 2004, 25, 5735-5742.	11.4	686
4	Ischemia and No Obstructive Coronary Artery Disease (INOCA). Circulation, 2017, 135, 1075-1092.	1.6	527
5	Vascular contributions to cognitive impairment and dementia including Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 710-717.	0.8	461
6	Targeted Disruption of the Matrix Metalloproteinase-9 Gene Impairs Smooth Muscle Cell Migration and Geometrical Arterial Remodeling. Circulation Research, 2002, 91, 852-859.	4.5	379
7	Cytokines Regulate Vascular Functions Related to Stability of the Atherosclerotic Plaque. Journal of Cardiovascular Pharmacology, 1995, 25, S9-S12.	1.9	301
8	Matrix Metalloproteinase-2 and â˜9 Differentially Regulate Smooth Muscle Cell Migration and Cell-Mediated Collagen Organization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 54-60.	2.4	275
9	Exerkines in health, resilience and disease. Nature Reviews Endocrinology, 2022, 18, 273-289.	9.6	268
10	Enhanced Expression of Vascular Matrix Metalloproteinases Induced In Vitro by Cytokines and in Regions of Human Atherosclerotic Lesions^a. Annals of the New York Academy of Sciences, 1994, 748, 501-507.	3.8	239
11	Plaque Rupture in Humans and Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 705-713.	2.4	228
12	Vascular Oxidant Stress Enhances Progression and Angiogenesis of Experimental Atheroma. Circulation, 2004, 109, 520-525.	1.6	216
13	Treatment for Mild Chronic Hypertension during Pregnancy. New England Journal of Medicine, 2022, 386, 1781-1792.	27.0	215
14	Inflammatory Cytokines and Oxidized Low Density Lipoproteins Increase Endothelial Cell Expression of Membrane Type 1-Matrix Metalloproteinase. Journal of Biological Chemistry, 1999, 274, 11924-11929.	3.4	182
15	Remodeling of Carotid Artery Is Associated With Increased Expression of Matrix Metalloproteinases in Mouse Blood Flow Cessation Model. Circulation, 2000, 102, 2861-2866.	1.6	178
16	Matrix Metalloproteinase-9 Is Required for Adequate Angiogenic Revascularization of Ischemic Tissues. Circulation Research, 2004, 94, 262-268.	4.5	178
17	Increased Expression of Matrix Metalloproteinase-2 in the Thickened Intima of Aged Rats. Hypertension, 1999, 33, 116-123.	2.7	172
18	Cardiovascular Drug Development. Journal of the American College of Cardiology, 2015, 65, 1567-1582.	2.8	168

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19	Mechanical Strain-Stimulated Remodeling of Tissue-Engineered Blood Vessel Constructs. Tissue Engineering, 2003, 9, 657-666.	4.6	158
20	N-Acetyl-Cysteine Decreases the Matrix-Degrading Capacity of Macrophage-Derived Foam Cells. Circulation, 1998, 97, 2445-2453.	1.6	157
21	Atherosclerotic Lesions Grow Through Recruitment and Proliferation of Circulating Monocytes in a Murine Model. American Journal of Pathology, 2002, 160, 2145-2155.	3.8	156
22	Extracellular Matrix Modulates Macrophage Functions Characteristic to Atheroma. Arteriosclerosis, Thrombosis, and Vascular Biology, 1998, 18, 432-440.	2.4	148
23	Cyclophilin A as a Novel Biphasic Mediator of Endothelial Activation and Dysfunction. American Journal of Pathology, 2004, 164, 1567-1574.	3.8	137
24	Uniaxial strain upregulates matrix-degrading enzymes produced by human vascular smooth muscle cells. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1778-H1784.	3.2	132
25	The Role of Matrix Metalloproteinase-2 in the Remodeling of Cell-Seeded Vascular Constructs Subjected to Cyclic Strain. Annals of Biomedical Engineering, 2001, 29, 923-934.	2.5	130
26	Matrix Metalloproteinase Hypothesis of Plaque Rupture. Circulation, 2001, 104, 1878-1880.	1.6	120
27	Expansive Arterial Remodeling: Location, Location, Location. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 650-657.	2.4	113
28	Expression of Matrix Metalloproteinase-9 in Endothelial Cells Is Differentially Regulated by Shear Stress. Journal of Biological Chemistry, 2003, 278, 32994-32999.	3.4	110
29	Thrombin Promotes Activation of Matrix Metalloproteinase-2 Produced by Cultured Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 17, 483-489.	2.4	109
30	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.	0.8	108
31	Role of Uncoupled Endothelial Nitric Oxide Synthase in Abdominal Aortic Aneurysm Formation. Hypertension, 2012, 59, 158-166.	2.7	102
32	Expansive Arterial Remodeling Is Associated With Increased Neointimal Macrophage Foam Cell Content. Circulation, 2002, 105, 2686-2691.	1.6	101
33	Report of the National Heart, Lung, and Blood Institute Working Group on Epigenetics and Hypertension. Hypertension, 2012, 59, 899-905.	2.7	91
34	Unlocking the Secrets of Mitochondria in the Cardiovascular System. Circulation, 2019, 140, 1205-1216.	1.6	91
35	Deciphering the Role of Lipid Droplets in Cardiovascular Disease. Circulation, 2018, 138, 305-315.	1.6	89
36	Atherosclerosis and Matrix Metalloproteinases: Experimental Molecular MR Imaging in Vivo. Radiology, 2009, 251, 429-438.	7.3	79

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37	Transmural pressure induces matrix-degrading activity in porcine arteries ex vivo. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2002-H2009.	3.2	73
38	Myocardial matrix metalloproteinase activity and abundance with congestive heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1516-H1523.	3.2	72
39	Atheroma Morphology and Mechanical Strength. Circulation Research, 2000, 86, 1-3.	4.5	71
40	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, 227-237.	2.1	67
41	â€œSmall Blood Vessels: Big Health Problems?â€: Scientific Recommendations of the National Institutes of Health Workshop. Journal of the American Heart Association, 2016, 5, .	3.7	67
42	Matrix metalloproteinase synthesis and expression in isolated LV myocyte preparations. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H777-H787.	3.2	64
43	Cytokines Regulate Genes Involved in Atherogenesis^a. Annals of the New York Academy of Sciences, 1994, 748, 158-168.	3.8	54
44	Monitoring of arterial wall remodelling in atherosclerotic rabbits with a magnetic resonance imaging contrast agent binding to matrix metalloproteinases. European Heart Journal, 2011, 32, 1561-1571.	2.2	54
45	Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation. Hypertension, 2017, 70, 479-485.	2.7	53
46	Early Effects of Arterial Hemodynamic Conditions on Human Saphenous Veins Perfused Ex Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1889-1895.	2.4	48
47	National Heart, Lung, and Blood Institute Working Group Report on Salt in Human Health and Sickness. Hypertension, 2016, 68, 281-288.	2.7	48
48	Compensatory Vascular Remodeling During Atherosclerotic Lesion Growth Depends on Matrix Metalloproteinase-9 Activity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 2123-2129.	2.4	44
49	Putative Murine Models of Plaque Rupture. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 969-972.	2.4	43
50	Point-of-Care Technologies for Precision Cardiovascular Care and Clinical Research. JACC Basic To Translational Science, 2016, 1, 73-86.	4.1	42
51	Matrix Metalloproteinase 9 Facilitates Collagen Remodeling and Angiogenesis for Vascular Constructs. Tissue Engineering, 2005, 11, 267-276.	4.6	40
52	Designer blood vessels and therapeutic revascularization. British Journal of Pharmacology, 2003, 140, 627-636.	5.4	38
53	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.	4.5	38
54	The use of temperatureâ€“composition combinatorial libraries to study the effects of biodegradable polymer blend surfaces on vascular cells. Biomaterials, 2005, 26, 4557-4567.	11.4	37

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55	Renal denervation therapy for hypertension: pathways for moving development forward. Journal of the American Society of Hypertension, 2015, 9, 341-350.	2.3	36
56	Investing in High Blood Pressure Research. Hypertension, 2013, 61, 757-761.	2.7	32
57	Anatomy of Success. Hypertension, 2014, 63, 641-647.	2.7	30
58	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.	1.3	28
59	Implementing the National Heart, Lung, and Blood Instituteâ€™s Strategic Vision in the Division of Cardiovascular Sciences. Circulation Research, 2019, 124, 491-497.	4.5	27
60	Optimization of Isolation and Functional Characterization of Primary Murine Aortic Endothelial Cells. Endothelium: Journal of Endothelial Cell Research, 2003, 10, 103-109.	1.7	26
61	Vulnerable Plaque. Circulation, 2004, 110, 244-246.	1.6	26
62	Report of the National Heart, Lung, and Blood Institute Working Group on Hypertension. Hypertension, 2020, 75, 902-917.	2.7	24
63	Shifting Demographics among Research Project Grant Awardees at the National Heart, Lung, and Blood Institute (NHLBI). PLoS ONE, 2016, 11, e0168511.	2.5	23
64	Matrix Metalloproteinases and Vascular Endothelium-Mononuclear Cell Close Encounters. Trends in Cardiovascular Medicine, 2004, 14, 105-111.	4.9	18
65	Exploring the Role of Endothelial Cell Resilience in Cardiovascular Health and Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 179-185.	2.4	17
66	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.	4.9	14
67	Sarcoidosis: A mysterious tale of inflammation, tissue remodeling, and matrix metalloproteinases. Human Pathology, 2002, 33, 1155-1157.	2.0	11
68	Quantitative assessment of collagen assembly by live cells. Journal of Biomedical Materials Research Part B, 2003, 67A, 775-784.	3.1	11
69	National Heart, Lung, and Blood Institute and the Translation of Cardiovascular Discoveries Into Therapeutic Approaches. Circulation Research, 2013, 112, 1212-1218.	4.5	11
70	Neointimal Cracks (Plaque Rupture?) and Thrombosis in Wrapped Arteries Without Flow. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 248-249.	2.4	10
71	A fluorescence lifetime spectroscopy study of matrix metalloproteinasesâ€2 and â€9 in human atherosclerotic plaque. Journal of Biophotonics, 2011, 4, 650-658.	2.3	10
72	Trends in NHLBI-Funded Research on Sex Differences in Hypertension. Circulation Research, 2016, 119, 591-595.	4.5	10

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73	On the Value of Portfolio Diversity in Heart, Lung, and Blood Research. Circulation Research, 2012, 111, 833-836.	4.5	9
74	Proteoglycan Synthesis by the Neointimal Smooth Muscle Cells Cultured from Rabbit Aortic Explants following De-Endothelialization. Pathobiology, 1993, 61, 89-94.	3.8	7
75	On the Value of Portfolio Diversity in Heart, Lung, and Blood Research. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 575-578.	5.6	7
76	â€œThe Good Old R01â€• Circulation Research, 2016, 118, 1475-1479.	4.5	7
77	Building on a Legacy of Hypertension Research. Hypertension, 2017, 69, 5-10.	2.7	6
78	Sulfated proteoglycans of rabbit aorta: Selective extraction and alternative method for glycosaminoglycan moiety analysis. Analytical Biochemistry, 1992, 204, 390-397.	2.4	4
79	Perspectives on Cognitive Phenotypes and Models of Vascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, , 101161ATVBAHA122317395.	2.4	4
80	Editorial: Where Is Waldo: Contextualizing the Endothelial Cell in the Era of Precision Biology. Frontiers in Cardiovascular Medicine, 2020, 7, 127.	2.4	3
81	The centuries long pursuit to map the human lymphatic system. Nature Medicine, 2022, 28, 1518-1520.	30.7	3
82	On the value of portfolio diversity in heart, lung, and blood research. Blood, 2012, 120, 2361-2364.	1.4	2
83	Angiogenesis Research. Circulation Research, 2017, 120, 1713-1717.	4.5	2
84	Matrix Metaloproteinases (MMPs) are necessary for flowâ€induced arterial remodeling. FASEB Journal, 2007, 21, A193.	0.5	0
85	â€œThen and Now,â€•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.	1.9	0