Paul Evans

List of Publications by Year
in descending order

125 papers	9,931 citations	36203 51 h-index	37111 96 g-index
142 all docs	142 docs citations	142 times ranked	13771 citing authors

#	Article	IF	Citations
1	Piezo1 integration of vascular architecture with physiological force. Nature, 2014, 515, 279-282.	13.7	813
2	Microchimerism and HLA-compatible relationships of pregnancy in scleroderma. Lancet, The, 1998, 351, 559-562.	6.3	574
3	Microchimerism of maternal origin persists into adult life. Journal of Clinical Investigation, 1999, 104, 41-47.	3.9	419
4	Long-Term Fetal Microchimerism in Peripheral Blood Mononuclear Cell Subsets in Healthy Women and Women With Scleroderma. Blood, 1999, 93, 2033-2037.	0.6	370
5	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. European Heart Journal, 2014, 35, 3013-3020.	1.0	359
6	Endothelial dysfunction in COVID-19: a position paper of the ESC Working Group for Atherosclerosis and Vascular Biology, and the ESC Council of Basic Cardiovascular Science. Cardiovascular Research, 2020, 116, 2177-2184.	1.8	331
7	Computational fluid dynamics modelling in cardiovascular medicine. Heart, 2016, 102, 18-28.	1.2	301
8	Endothelial responses to shear stress in atherosclerosis: a novel role for developmental genes. Nature Reviews Cardiology, 2020, 17, 52-63.	6.1	270
9	Endothelialâ€“mesenchymal transition in atherosclerosis. Cardiovascular Research, 2018, 114, 565-577.	1.8	239
10	Vascular dysfunction in the pathogenesis of Alzheimer's disease â€” A review of endothelium-mediated mechanisms and ensuing vicious circles. Neurobiology of Disease, 2015, 82, 593-606.	2.1	219
11	Activation of Nrf2 in Endothelial Cells Protects Arteries From Exhibiting a Proinflammatory State. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1851-1857.	1.1	216
12	Zinc-finger protein A20, a regulator of inflammation and cell survival, has de-ubiquitinating activity. Biochemical Journal, 2004, 378, 727-734.	1.7	214
13	Role of nuclear factor ÎºB in cardiovascular health and disease. Clinical Science, 2010, 118, 593-605.	1.8	211
14	Role of biomechanical forces in the natural history of coronary atherosclerosis. Nature Reviews Cardiology, 2016, 13, 210-220.	6.1	193
15	Microvesicles in vascular homeostasis and diseases. Thrombosis and Haemostasis, 2017, 117, 1296-1316.	1.8	193
16	NF-ÎºB Suppression by the Deubiquitinating Enzyme Cezanne. Journal of Biological Chemistry, 2008, 283, 7036-7045.	1.6	186
17	Expert recommendations on the assessment of wall shear stress in human coronary arteries: existing methodologies, technical considerations, and clinical applications. European Heart Journal, 2019, 40, 3421-3433.	1.0	178
18	Disturbed Flow Promotes Endothelial Senescence via a p53-Dependent Pathway. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 985-995.	1.1	174

#	Article	IF	Citations
19	Novel methodologies for biomarker discovery in atherosclerosis. European Heart Journal, 2015, 36, 2635-2642.	1.0	174
20	Endothelial function in cardiovascular medicine: a consensus paper of the European Society of Cardiology Working Groups on Atherosclerosis and Vascular Biology, Aorta and Peripheral Vascular Diseases, Coronary Pathophysiology and Microcirculation, and Thrombosis. Cardiovascular Research, 2021, 117, 29-42.	1.8	164
21	Mechanical Activation of Hypoxia-Inducible Factor 1Î± Drives Endothelial Dysfunction at Atheroprone Sites. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2087-2101.	1.1	154
22	A Novel Type of Deubiquitinating Enzyme. Journal of Biological Chemistry, 2003, 278, 23180-23186.	1.6	144
23	Shear stress induces endothelial-to-mesenchymal transition via the transcription factor Snail. Scientific Reports, 2017, 7, 3375.	1.6	138
24	Laminar shear stress acts as a switch to regulate divergent functions of NFâ€ºB in endothelial cells. FASEB Journal, 2007, 21, 3553-3561.	0.2	130
25	Cutting Edge: Persistent Fetal Microchimerism in T Lymphocytes Is Associated with HLA-DQA1*0501: Implications in Autoimmunity. Journal of Immunology, 2000, 164, 5545-5548.	0.4	125
26	TWIST1 Integrates Endothelial Responses to Flow in Vascular Dysfunction and Atherosclerosis. Circulation Research, 2016, 119, 450-462.	2.0	115
27	Elevated p53 expression is associated with dysregulation of the ubiquitin-proteasome system in dilated cardiomyopathy. Cardiovascular Research, 2008, 79, 472-480.	1.8	114
28	The triage of damaged proteins: degradation by the ubiquitinâ€proteasome pathway or repair by molecular chaperones. FASEB Journal, 2006, 20, 741-743.	0.2	107
29	Heme Induces Heme Oxygenase 1 via Nrf2. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2685-2691.	1.1	107
30	Disturbed Blood Flow Induces RelA Expression via c-Jun N-Terminal Kinase 1. Circulation Research, 2011, 108, 950-959.	2.0	105
31	The effects of stenting on shear stress: relevance to endothelial injury and repair. Cardiovascular Research, 2013, 99, 269-275.	1.8	103
32	Neutrophil microvesicles drive atherosclerosis by delivering miR-155 to atheroprone endothelium. Nature Communications, 2020, 11, 214.	5.8	103
33	Increased Endothelial Mitogen-Activated Protein Kinase Phosphatase-1 Expression Suppresses Proinflammatory Activation at Sites That Are Resistant to Atherosclerosis. Circulation Research, 2008, 103, 726-732.	2.0	102
34	Induction of the Cytoprotective Enzyme Heme Oxygenase-1 by Statins Is Enhanced in Vascular Endothelium Exposed to Laminar Shear Stress and Impaired by Disturbed Flow. Journal of Biological Chemistry, 2009, 284, 18882-18892.	1.6	96
35	Mechanoresponsive Networks Controlling Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2199-2205.	1.1	96
36	PKCÎµ-CREB-Nrf2 signalling induces HO-1 in the vascular endothelium and enhances resistance to inflammation and apoptosis. Cardiovascular Research, 2015, 106, 509-519.	1.8	89

#	Article	IF	Citations
37	The role of blood flow in determining the sites of atherosclerotic plaques. F1000 Medicine Reports, 2011, 3, 5.	2.9	85
38	Isolation and characterization of two novel A20-like proteins. Biochemical Journal, 2001, 357, 617-623.	1.7	83
39	Inhibition of NF-Î¹B Signaling in Human Dendritic Cells by the Enteropathogenic Escherichia coli Effector Protein NleE. Journal of Immunology, 2010, 185, 4118-4127.	0.4	73
40	Effect of shear stress on vascular inflammation and plaque development. Current Opinion in Lipidology, 2007, 18, 527-533.	1.2	72
41	Identifying the anti-inflammatory response to lipid lowering therapy: a position paper from the working group on atherosclerosis and vascular biology of the European Society of Cardiology. Cardiovascular Research, 2019, 115, 10-19.	1.8	72
42	Zebrafish as a tractable model of human cardiovascular disease. British Journal of Pharmacology, 2022, 179, 900-917.	2.7	70
43	Shear stress modulates the expression of the atheroprotective protein Cx37 in endothelial cells. Journal of Molecular and Cellular Cardiology, 2012, 53, 299-309.	0.9	65
44	Isolation and characterization of two novel A20-like proteins. Biochemical Journal, 2001, 357, 617.	1.7	63
45	c-Jun N-Terminal Kinase Primes Endothelial Cells at Atheroprone Sites for Apoptosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 546-553.	1.1	61
46	KLF2-dependent, Shear Stress-induced Expression of CD59. Journal of Biological Chemistry, 2008, 283, 14636-14644.	1.6	60
47	The Transcription Factor Erg Inhibits Vascular Inflammation by Repressing NF-Î¹B Activation and Proinflammatory Gene Expression in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 142-150.	1.1	60
48	Immunometabolism and atherosclerosis: perspectives and clinical significance: a position paper from the Working Group on Atherosclerosis and Vascular Biology of the European Society of Cardiology. Cardiovascular Research, 2019, 115, 1385-1392.	1.8	58
49	Celecoxib activates PI-3K/Akt and mitochondrial redox signaling to enhance heme oxygenase-1-mediated anti-inflammatory activity in vascular endothelium. Free Radical Biology and Medicine, 2010, 48, 1013-1023.	1.3	56
50	Hydrogen Peroxide Prolongs Nuclear Localization of NF-Î¹B in Activated Cells by Suppressing Negative Regulatory Mechanisms. Journal of Biological Chemistry, 2008, 283, 18582-18590.	1.6	55
51	Do Miniaturized Extracorporeal Circuits Confer Significant Clinical Benefit Without Compromising Safety? A Meta-Analysis of Randomized Controlled Trials. ASAIO Journal, 2011, 57, 141-151.	0.9	52
52	Cezanne Regulates Inflammatory Responses to Hypoxia in Endothelial Cells by Targeting TRAF6 for Deubiquitination. Circulation Research, 2013, 112, 1583-1591.	2.0	51
53	Cytomegalovirus infection of bile duct epithelial cells, hepatic artery and portal venous endothelium in relation to chronic rejection of liver grafts. Journal of Hepatology, 1999, 31, 913-920.	1.8	48
54	Interplay between hypercholesterolaemia and inflammation in atherosclerosis: Translating experimental targets into clinical practice. European Journal of Preventive Cardiology, 2018, 25, 948-955.	0.8	46

#	Article	IF	Citations
55	Zebrafish Model for Functional Screening of Flow-Responsive Genes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 130-143.	1.1	45
56	The A20 gene protects kidneys from ischaemia/reperfusion injury by suppressing pro-inflammatory activation. Journal of Molecular Medicine, 2008, 86, 1329-1339.	1.7	43
57	SIGNALING THROUGH CD31 PROTECTS ENDOTHELIAL CELLS FROM APOPTOSIS. Transplantation, 2001, 71, 457-460.	0.5	41
58	Atheroprone flow activates inflammation via endothelial ATP-dependent P2X7-p38 signalling. Cardiovascular Research, 2018, 114, 324-335.	1.8	41
59	Î²1 integrin is a sensor of blood flow direction. Journal of Cell Science, 2019, 132, .	1.2	41
60	The influence of sulforaphane on vascular health and its relevance to nutritional approaches to prevent cardiovascular disease. EPMA Journal, 2011, 2, 9-14.	3.3	38
61	Dexamethasone Arterializes Venous Endothelial Cells by Inducing Mitogen-Activated Protein Kinase Phosphatase-1. Circulation, 2011, 123, 524-532.	1.6	37
62	Hemodynamic parameters regulating vascular inflammation and atherosclerosis: A brief update. Biomedicine and Pharmacotherapy, 2008, 62, 536-540.	2.5	33
63	In Vivo Mapping of Vascular Inflammation Using the Translocator Protein Tracer ¹⁸ F-FEDAA1106. Molecular Imaging, 2014, 13, 7290.2014.00014.	0.7	32
64	Endothelial repair in stented arteries is accelerated by inhibition of Rho-associated protein kinase. Cardiovascular Research, 2016, 112, 689-701.	1.8	32
65	A novel method for measuring absolute coronary blood flow and microvascular resistance in patients with ischaemic heart disease. Cardiovascular Research, 2021, 117, 1567-1577.	1.8	32
66	Recognition of E-cadherin by Integrin Î±EÎ²7. Journal of Biological Chemistry, 2001, 276, 30862-30870.	1.6	31
67	Recipient HLA-DR3, tumour necrosis factor-Î± promoter allele-2 (tumour necrosis factor-2) and cytomegalovirus infection are inter-related risk factors for chronic rejection of liver grafts. Journal of Hepatology, 2001, 34, 711-715.	1.8	30
68	Control of tissue morphology by Fasciclin III-mediated intercellular adhesion. Development (Cambridge), 2013, 140, 3858-3868.	1.2	29
69	Sulforaphane induces neurovascular protection against a systemic inflammatory challenge via both Nrf2-dependent and independent pathways. Vascular Pharmacology, 2016, 85, 29-38.	1.0	29
70	Regulation of pro-inflammatory signalling networks by ubiquitin: identification of novel targets for anti-inflammatory drugs. Expert Reviews in Molecular Medicine, 2005, 7, 1-19.	1.6	28
71	Sulforaphane pretreatment prevents systemic inflammation and renal injury in response to cardiopulmonary bypass. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 690-697.e3.	0.4	25
72	Disturbed flow induces a sustained, stochastic NF-Î²B activation which may support intracranial aneurysm growth in vivo. Scientific Reports, 2019, 9, 4738.	1.6	25

#	Article	IF	Citations
73	Requirement of JNK1 for endothelial cell injury in atherogenesis. Atherosclerosis, 2014, 235, 613-618.	0.4	24
74	Dietary Docosahexaenoic Acid Reduces Oscillatory Wall Shear Stress, Atherosclerosis, and Hypertension, Most Likely Mediated via an ILâ€1â€“Mediated Mechanism. Journal of the American Heart Association, 2018, 7, .	1.6	24
75	NF-Î°B inhibition prevents acute shear stress-induced inflammation in the saphenous vein graft endothelium. Scientific Reports, 2020, 10, 15133.	1.6	24
76	INTERLEUKIN-13 PROTECTS ENDOTHELIAL CELLS FROM APOPTOSIS AND ACTIVATION. Transplantation, 2000, 70, 928-934.	0.5	21
77	Heart rate reduction with ivabradine promotes shear stress-dependent anti-inflammatory mechanisms in arteries. Thrombosis and Haemostasis, 2016, 116, 181-190.	1.8	20
78	Implantation of a Carotid Cuff for Triggering Shear-stress Induced Atherosclerosis in Mice. Journal of Visualized Experiments, 2012, , .	0.2	19
79	Future directions for therapeutic strategies in post-ischaemic vascularization: a position paper from European Society of Cardiology Working Group on Atherosclerosis and Vascular Biology. Cardiovascular Research, 2018, 114, 1411-1421.	1.8	19
80	Homeobox B9 integrates bone morphogenic protein 4 with inflammation at atheroprone sites. Cardiovascular Research, 2020, 116, 1300-1310.	1.8	19
81	??-GALACTOSYL-MEDIATED ACTIVATION OF PORCINE ENDOTHELIAL CELLS. Transplantation, 1999, 68, 861-867.	0.5	19
82	Aortic stiffness is an indicator of cognitive dysfunction before and after aortic valve replacement for aortic stenosis. Interactive Cardiovascular and Thoracic Surgery, 2014, 19, 595-604.	0.5	18
83	Mini Bypass and Proinflammatory Leukocyte Activation: A Randomized Controlled Trial. Annals of Thoracic Surgery, 2016, 101, 1454-1463.	0.7	18
84	The Biology of A20-Like Molecules. Advances in Experimental Medicine and Biology, 2014, 809, 33-48.	0.8	17
85	Donor CD31 genotype and its association with acute graft-versus-host disease in HLA identical sibling stem cell transplantation. Bone Marrow Transplantation, 2005, 36, 151-156.	1.3	16
86	Resilience of the Internal Mammary Artery to Atherogenesis: Shifting From Risk to Resistance to Address Unmet Needs. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2237-2251.	1.1	16
87	Diabetic atherosclerosis: is there a role for the hypoxia-inducible factors?. Bioscience Reports, 2020, 40, .	1.1	16
88	Protein kinase CÏµ activity induces anti-inflammatory and anti-apoptotic genes via an ERK1/2- and NF-Î°B-dependent pathway to enhance vascular protection. Biochemical Journal, 2012, 447, 193-204.	1.7	14
89	Loss of Function of Parathyroid Hormone Receptor 1 Induces Notch-Dependent Aortic Defects During Zebrafish Vascular Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1257-1263.	1.1	14
90	Optimisation of the polymerase chain reaction and dot-blot hybridisation for detecting cytomegalovirus DNA in urine: comparison with detection of early antigen fluorescent foci and culture. Journal of Virological Methods, 1998, 73, 41-52.	1.0	13

#	Article	IF	Citations
91	Nur77. Circulation Research, 2009, 104, 707-709.	2.0	13
92	Solid-Phase Immunoglobulins IgG and IgM Activate Macrophages with Solid-Phase IgM Acting via a Novel Scavenger Receptor A Pathway. American Journal of Pathology, 2012, 181, 347-361.	1.9	13
93	Biomechanical factors in cardiovascular disease. Cardiovascular Research, 2013, 99, 229-231.	1.8	13
94	A20 suppresses vascular inflammation by recruiting proinflammatory signaling molecules to intracellular aggresomes. FASEB Journal, 2015, 29, 1869-1878.	0.2	13
95	Cezanne is a critical regulator of pathological arterial remodelling by targeting Î²-catenin signalling. Cardiovascular Research, 2022, 118, 638-653.	1.8	13
96	Smooth muscle cells in porcine vein graft intimal hyperplasia are derived from the local vessel wall. Cardiovascular Pathology, 2011, 20, e91-e94.	0.7	12
97	Aortic stiffness as a marker of cardiac function and myocardial strain in patients undergoing aortic valve replacement. Journal of Cardiothoracic Surgery, 2014, 9, 102.	0.4	12
98	Metabolic derangement and cardiac injury early after reperfusion following intermittent cross-clamp fibrillation in patients undergoing coronary artery bypass graft surgery using conventional or miniaturized cardiopulmonary bypass. Molecular and Cellular Biochemistry, 2014, 395, 167-175.	1.4	12
99	Experimental Approaches to Study Endothelial Responses to Shear Stress. Antioxidants and Redox Signaling, 2016, 25, 389-400.	2.5	12
100	GATA4-Twist1 Signalling in Disturbed Flow-Induced Atherosclerosis. Cardiovascular Drugs and Therapy, 2019, 33, 231-237.	1.3	12
101	Endothelial NADPH oxidase 4 protects against angiotensin Iiâ€induced cardiac fibrosis and inflammation. ESC Heart Failure, 2021, 8, 1427-1437.	1.4	12
102	Bio-tribology of Vascular Devices: A Review of Tissue/Device Friction Research. Biotribology, 2021, 25, 100169.	0.9	12
103	Cytoprotective Signaling and Gene Expression in Endothelial Cells and Macrophagesâ€"Lessons for Atherosclerosis. Microcirculation, 2013, 20, 203-216.	1.0	11
104	The effect of absent blood flow on the zebrafish cerebral and trunk vasculature. Vascular Biology (Bristol, England), 2021, 3, 1-16.	1.2	8
105	Shear stress: the dark energy of atherosclerotic plaques. Cardiovascular Research, 2021, 117, 1811-1813.	1.8	7
106	Nrf2-Keap-1 imbalance under acute shear stress induces inflammatory response in venous endothelial cells. Perfusion (United Kingdom), 2022, 37, 582-589.	0.5	7
107	Atherosclerosis: cell biology and lipoproteins â€" new developments in imaging of inflammation of the vulnerable plaque. Current Opinion in Lipidology, 2008, 19, 98-100.	1.2	5
108	Perfusion of veins at arterial pressure increases the expression of KLF5 and cell cycle genes in smooth muscle cells. Biochemical and Biophysical Research Communications, 2010, 391, 818-823.	1.0	5

#	Article	IF	Citations
109	Reservoir Souring Modelling, Prediction and Mitigation. , 2008, , .		4
110	Biomechanics in vascular biology and cardiovascular disease. Thrombosis and Haemostasis, 2016, 115, 465-466.	1.8	4
111	Response by Feng et al to Letter Regarding Article, â€œMechanical Activation of Hypoxia-Inducible Factor 1Î± Drives Endothelial Dysfunction at Atheroprone Sitesâ€• Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, e199-e200.	1.1	4
112	Shear stress makes its mark on the endothelial genome. Cardiovascular Research, 2019, 115, 1449-1451.	1.8	4
113	The year in basic vascular biology research: from mechanoreceptors and neutrophil extracellular traps to smartphone data and omics. Cardiovascular Research, 2021, 117, 1814-1822.	1.8	4
114	Notching Up Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 698-699.	1.1	3
115	Shear stress, inflammation and Atherosclerosis. Artery Research, 2010, 4, 41.	0.3	2
116	Regulation of Endothelial Activation and Vascular Inflammation by Shear Stress. , 2013, , 77-85.		2
117	NR2 antibody is associated with quality of life in aortic valve replacement. Asian Cardiovascular and Thoracic Annals, 2015, 23, 690-700.	0.2	1
118	Consumption of Broccoli Sprouts Attenuates Intracellular P38 Map Kinase and Reactive Oxygen Species Pro-Inflammatory Activation in Human Leukocytes: A Randomised- Controlled Trial. Journal of Clinical Nutrition & Dietetics, 2017, 03, .	0.3	1
119	The Bernard and Joan Marshall Early Career Investigators and Distinguished Investigator Award 2018. Cardiovascular Drugs and Therapy, 2019, 33, 203-205.	1.3	1
120	Scientists on the Spot: A matter of blood flow. Cardiovascular Research, 2021, 117, e162-e163.	1.8	1
121	Targeting Inhibitor of Apoptosis Proteins to Block Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2165-2166.	1.1	0
122	192â€…Dietary Docosahexaenoic Acid Reduced Experimental Atherosclerosis by Inducing Protective Haemodynamic Conditions. Heart, 2015, 101, A107.2-A107.	1.2	0
123	Reply. Annals of Thoracic Surgery, 2016, 102, 1765-1766.	0.7	0
124	Quantifying endothelial cell proliferation in the zebrafish embryo. F1000Research, 0, 10, 1032.	0.8	0
125	Image-Based Computational Hemodynamics and Microarray Analysis of the Porcine Aortic Arch Reveals a Correlation Between Shear Stress and Endothelial Cell Apoptosis. , 2012, , .		0