

Hanjoong Jo

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207
papers

12,511
citations

63
h-index

106
g-index

241
ext. papers

13,849
ext. citations

6.4
avg, IF

6.12
L-index

#	Paper	IF	Citations
207	Role of p47(phox) in vascular oxidative stress and hypertension caused by angiotensin II. <i>Hypertension</i> , 2002 , 40, 511-5	8.5	485
206	Shear stress stimulates phosphorylation of endothelial nitric-oxide synthase at Ser1179 by Akt-independent mechanisms: role of protein kinase A. <i>Journal of Biological Chemistry</i> , 2002 , 277, 3388-96	5.4	350
205	Biological aspects of reactive nitrogen species. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999 , 1411, 385-400	4.6	350
204	Role of xanthine oxidoreductase and NAD(P)H oxidase in endothelial superoxide production in response to oscillatory shear stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H2290-7	5.2	341
203	Caveolin-mediated regulation of signaling along the p42/44 MAP kinase cascade in vivo. A role for the caveolin-scaffolding domain. <i>FEBS Letters</i> , 1998 , 428, 205-11	3.8	321
202	Bone morphogenic protein 4 produced in endothelial cells by oscillatory shear stress induces monocyte adhesion by stimulating reactive oxygen species production from a nox1-based NADPH oxidase. <i>Circulation Research</i> , 2004 , 95, 773-9	15.7	316
201	Partial carotid ligation is a model of acutely induced disturbed flow, leading to rapid endothelial dysfunction and atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 297, H1535-43	5.2	313
200	Flow-dependent regulation of endothelial nitric oxide synthase: role of protein kinases. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C499-508	5.4	284
199	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. <i>European Heart Journal</i> , 2014 , 35, 3013-20, 3020a-3020d	9.5	250
198	Oscillatory shear stress stimulates endothelial production of O ₂ ⁻ from p47phox-dependent NAD(P)H oxidases, leading to monocyte adhesion. <i>Journal of Biological Chemistry</i> , 2003 , 278, 47291-8	5.4	232
197	Bone morphogenic protein 4 produced in endothelial cells by oscillatory shear stress stimulates an inflammatory response. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31128-35	5.4	230
196	Differential effect of shear stress on extracellular signal-regulated kinase and N-terminal Jun kinase in endothelial cells. Gi ₂ - and G _{beta} /gamma-dependent signaling pathways. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1395-401	5.4	220
195	Role of flow-sensitive microRNAs in endothelial dysfunction and atherosclerosis: mechanosensitive athero-miRs. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2206-16	9.4	194
194	Flow-dependent epigenetic DNA methylation regulates endothelial gene expression and atherosclerosis. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3187-99	15.9	194
193	Role of G proteins in shear stress-mediated nitric oxide production by endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 1994 , 267, C753-8	5.4	192
192	Compensatory phosphorylation and protein-protein interactions revealed by loss of function and gain of function mutants of multiple serine phosphorylation sites in endothelial nitric-oxide synthase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 14841-9	5.4	187
191	Altered shear stress stimulates upregulation of endothelial VCAM-1 and ICAM-1 in a BMP-4- and TGF-beta1-dependent pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 254-60	9.4	182

190	Shear stress stimulates phosphorylation of eNOS at Ser(635) by a protein kinase A-dependent mechanism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H1819-28	5.2	182
189	Cell signaling by reactive nitrogen and oxygen species in atherosclerosis. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 1780-94	7.8	178
188	MicroRNA-663 upregulated by oscillatory shear stress plays a role in inflammatory response of endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H1762-9	5.2	165
187	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. <i>Nature Communications</i> , 2013 , 4, 3000	17.4	162
186	Elevated cyclic stretch alters matrix remodeling in aortic valve cusps: implications for degenerative aortic valve disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H756-64	5.2	159
185	Transcriptional profiles of valvular and vascular endothelial cells reveal phenotypic differences: influence of shear stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 69-77	9.4	151
184	NAD(P)H oxidase-derived hydrogen peroxide mediates endothelial nitric oxide production in response to angiotensin II. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48311-7	5.4	149
183	Chronic shear induces caveolae formation and alters ERK and Akt responses in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1113-22	5.2	143
182	Plasma membrane cholesterol is a key molecule in shear stress-dependent activation of extracellular signal-regulated kinase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 32304-11	5.4	143
181	Elevated cyclic stretch induces aortic valve calcification in a bone morphogenetic protein-dependent manner. <i>American Journal of Pathology</i> , 2010 , 177, 49-57	5.8	124
180	Discovery of novel mechanosensitive genes in vivo using mouse carotid artery endothelium exposed to disturbed flow. <i>Blood</i> , 2010 , 116, e66-73	2.2	120
179	Activation of mitogen-activated protein kinase pathways by cyclic GMP and cyclic GMP-dependent protein kinase in contractile vascular smooth muscle cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 34301-9	5.4	114
178	The NADPH oxidase Nox4 has anti-atherosclerotic functions. <i>European Heart Journal</i> , 2015 , 36, 3447-56	9.5	112
177	Nitric oxide-dependent induction of glutathione synthesis through increased expression of gamma-glutamylcysteine synthetase. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 358, 74-82	4.1	110
176	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE(-/-) Mice. <i>ACS Nano</i> , 2015 , 9, 8885-97	16.7	109
175	Caveolin-1 regulates shear stress-dependent activation of extracellular signal-regulated kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H1285-93	5.2	108
174	Fluid Mechanics, Arterial Disease, and Gene Expression. <i>Annual Review of Fluid Mechanics</i> , 2014 , 46, 591-614	6.14	107
173	Bone morphogenetic protein-4 induces hypertension in mice: role of noggin, vascular NADPH oxidases, and impaired vasorelaxation. <i>Circulation</i> , 2006 , 113, 2818-25	16.7	107

172	Bone morphogenic protein antagonists are coexpressed with bone morphogenic protein 4 in endothelial cells exposed to unstable flow in vitro in mouse aortas and in human coronary arteries: role of bone morphogenic protein antagonists in inflammation and atherosclerosis. <i>Circulation</i> , 2007 , 116, 1258-66	16.7	107
171	Reactive oxygen species-selective regulation of aortic inflammatory gene expression in Type 2 diabetes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2073-82	5.2	103
170	An ex vivo study of the biological properties of porcine aortic valves in response to circumferential cyclic stretch. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1655-65	4.7	101
169	KLF2 and KLF4 control endothelial identity and vascular integrity. <i>JCI Insight</i> , 2017 , 2, e91700	9.9	100
168	Simulated microgravity using the Random Positioning Machine inhibits differentiation and alters gene expression profiles of 2T3 preosteoblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C1211-21	5.4	100
167	Mechanisms of cell signaling by nitric oxide and peroxynitrite: from mitochondria to MAP kinases. <i>Antioxidants and Redox Signaling</i> , 2001 , 3, 215-29	8.4	100
166	Shear stress and plaque development. <i>Expert Review of Cardiovascular Therapy</i> , 2010 , 8, 545-56	2.5	99
165	Mechanical Activation of Hypoxia-Inducible Factor 1 Drives Endothelial Dysfunction at Atheroprone Sites. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 2087-2101	9.4	96
164	The induction of GSH synthesis by nanomolar concentrations of NO in endothelial cells: a role for gamma-glutamylcysteine synthetase and gamma-glutamyl transpeptidase. <i>FEBS Letters</i> , 1999 , 448, 292-6	3.8	96
163	Peroxiredoxin 2 deficiency exacerbates atherosclerosis in apolipoprotein E-deficient mice. <i>Circulation Research</i> , 2011 , 109, 739-49	15.7	90
162	Expression of cathepsin K is regulated by shear stress in cultured endothelial cells and is increased in endothelium in human atherosclerosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1479-86	5.2	89
161	Prevention of abdominal aortic aneurysm by anti-microRNA-712 or anti-microRNA-205 in angiotensin II-infused mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1412-21	9.4	85
160	Protein kinase B/Akt activates c-Jun NH(2)-terminal kinase by increasing NO production in response to shear stress. <i>Journal of Applied Physiology</i> , 2001 , 91, 1574-81	3.7	84
159	Discovery of shear- and side-specific mRNAs and miRNAs in human aortic valvular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H856-67	5.2	83
158	Expression of CYP1A1 and CYP1B1 in human endothelial cells: regulation by fluid shear stress. <i>Cardiovascular Research</i> , 2009 , 81, 669-77	9.9	81
157	Endothelial NO synthase phosphorylated at SER635 produces NO without requiring intracellular calcium increase. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 729-41	7.8	80
156	Role of NADPH oxidases in disturbed flow- and BMP4- induced inflammation and atherosclerosis. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 1609-19	8.4	78
155	Identification of mechanosensitive genes in osteoblasts by comparative microarray studies using the rotating wall vessel and the random positioning machine. <i>Journal of Cellular Biochemistry</i> , 2007 , 101, 587-99	4.7	73

154	Aortic valve: mechanical environment and mechanobiology. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 1331-46	4.7	71
153	Laminar shear stress up-regulates peroxiredoxins (PRX) in endothelial cells: PRX 1 as a mechanosensitive antioxidant. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1622-1627	5.4	71
152	Anti-inflammatory and antiatherogenic role of BMP receptor II in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 1350-9	9.4	68
151	The effect of varying albumin concentration and hydrostatic pressure on hydraulic conductivity and albumin permeability of cultured endothelial monolayers. <i>Microvascular Research</i> , 1991 , 41, 390-407	3.7	68
150	HuR regulates the expression of stress-sensitive genes and mediates inflammatory response in human umbilical vein endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6858-63	11.5	67
149	Target accessibility and signal specificity in live-cell detection of BMP-4 mRNA using molecular beacons. <i>Nucleic Acids Research</i> , 2008 , 36, e30	20.1	66
148	Endothelial albumin permeability is shear dependent, time dependent, and reversible. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1991 , 260, H1992-6	5.2	66
147	Laminar shear inhibits tubule formation and migration of endothelial cells by an angiotensin-2 dependent mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 2150-6	9.4	65
146	Caveolin-1 knockout mice have increased bone size and stiffness. <i>Journal of Bone and Mineral Research</i> , 2007 , 22, 1408-18	6.3	64
145	Role of flow-sensitive microRNAs and long noncoding RNAs in vascular dysfunction and atherosclerosis. <i>Vascular Pharmacology</i> , 2019 , 114, 76-92	5.9	63
144	Flow-Dependent Epigenetic DNA Methylation in Endothelial Gene Expression and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 1562-9	9.4	62
143	Piperlongumine inhibits atherosclerotic plaque formation and vascular smooth muscle cell proliferation by suppressing PDGF receptor signaling. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 427, 349-54	3.4	61
142	Laminar shear stress inhibits cathepsin L activity in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 1784-90	9.4	61
141	Evidence for peroxynitrite as a signaling molecule in flow-dependent activation of c-Jun NH(2)-terminal kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H1647-53	5.2	61
140	Preferential activation of SMAD1/5/8 on the fibrosa endothelium in calcified human aortic valves--association with low BMP antagonists and SMAD6. <i>PLoS ONE</i> , 2011 , 6, e20969	3.7	60
139	Differential proinflammatory and prooxidant effects of bone morphogenetic protein-4 in coronary and pulmonary arterial endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H569-77	5.2	59
138	Effects of pyrrolidine dithiocarbamate on endothelial cells: protection against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 1138-45	7.8	59
137	Mechanosensitive PPAP2B Regulates Endothelial Responses to Atherorelevant Hemodynamic Forces. <i>Circulation Research</i> , 2015 , 117, e41-e53	15.7	58

136	Animal, in vitro, and ex vivo models of flow-dependent atherosclerosis: role of oxidative stress. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1433-48	8.4	53
135	Design of an ex vivo culture system to investigate the effects of shear stress on cardiovascular tissue. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 035001	2.1	52
134	Coordinated regulation of endothelial nitric oxide synthase activity by phosphorylation and subcellular localization. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 144-53	7.8	51
133	Angiopoietin-2 stimulates blood flow recovery after femoral artery occlusion by inducing inflammation and arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1989-95	9.4	49
132	Early determinants of H ₂ O ₂ -induced endothelial dysfunction. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 810-7	7.8	49
131	Simulated Microgravity and 3D Culture Enhance Induction, Viability, Proliferation and Differentiation of Cardiac Progenitors from Human Pluripotent Stem Cells. <i>Scientific Reports</i> , 2016 , 6, 30956	4.9	49
130	The role of epigenetics in the endothelial cell shear stress response and atherosclerosis. <i>International Journal of Biochemistry and Cell Biology</i> , 2015 , 67, 167-76	5.6	45
129	GTP cyclohydrolase I phosphorylation and interaction with GTP cyclohydrolase feedback regulatory protein provide novel regulation of endothelial tetrahydrobiopterin and nitric oxide. <i>Circulation Research</i> , 2010 , 106, 328-36	15.7	45
128	The interplay of nitric oxide and peroxynitrite with signal transduction pathways: implications for disease. <i>Seminars in Perinatology</i> , 1997 , 21, 351-66	3.3	45
127	Downregulation of bone morphogenetic protein 4 expression in coronary arterial endothelial cells: role of shear stress and the cAMP/protein kinase A pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 776-82	9.4	45
126	Role of Noncoding RNAs in the Pathogenesis of Abdominal Aortic Aneurysm. <i>Circulation Research</i> , 2019 , 124, 619-630	15.7	44
125	Embryonic stem cell-derived endothelial cells may lack complete functional maturation in vitro. <i>Journal of Vascular Research</i> , 2006 , 43, 411-21	1.9	44
124	Plasma membrane requirements for 1 α ,25(OH) ₂ D ₃ dependent PKC signaling in chondrocytes and osteoblasts. <i>Steroids</i> , 2006 , 71, 286-90	2.8	43
123	Phosphatidylinositol 3-kinase gamma mediates shear stress-dependent activation of JNK in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H1898-904	5.2	43
122	The effects of combined cyclic stretch and pressure on the aortic valve interstitial cell phenotype. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1654-67	4.7	42
121	A model of disturbed flow-induced atherosclerosis in mouse carotid artery by partial ligation and a simple method of RNA isolation from carotid endothelium. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	42
120	Vascular Semaphorin 7A Upregulation by Disturbed Flow Promotes Atherosclerosis Through Endothelial α 1 Integrin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 335-343	9.4	41
119	Tetrahydrobiopterin deficiency and nitric oxide synthase uncoupling contribute to atherosclerosis induced by disturbed flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1547-54	9.4	41

118	Accelerated atherosclerosis development in C57Bl6 mice by overexpressing AAV-mediated PCSK9 and partial carotid ligation. <i>Laboratory Investigation</i> , 2017 , 97, 935-945	5.9	39
117	Angiotensin II induces DNA damage via AT1 receptor and NADPH oxidase isoform Nox4. <i>Mutagenesis</i> , 2012 , 27, 673-81	2.8	39
116	Cyclic pressure and shear stress regulate matrix metalloproteinases and cathepsin activity in porcine aortic valves. <i>Journal of Heart Valve Disease</i> , 2006 , 15, 622-9		39
115	Low magnitude and high frequency mechanical loading prevents decreased bone formation responses of 2T3 preosteoblasts. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 306-16	4.7	38
114	Flow-dependent expression of ectonucleotide tri(di)phosphohydrolase-1 and suppression of atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 3027-36	15.9	38
113	Endothelial Reprogramming by Disturbed Flow Revealed by Single-Cell RNA and Chromatin Accessibility Study. <i>Cell Reports</i> , 2020 , 33, 108491	10.6	37
112	Nitric oxide, free radicals and cell signalling in cardiovascular disease. <i>Biochemical Society Transactions</i> , 1997 , 25, 925-9	5.1	36
111	Regulation of growth plate chondrocytes by 1,25-dihydroxyvitamin D3 requires caveolae and caveolin-1. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 1637-47	6.3	36
110	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{0/0} mice with partial carotid ligation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 308, R62-72	3.2	35
109	The role of endothelial mechanosensitive genes in atherosclerosis and omics approaches. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 591, 111-31	4.1	34
108	NFKB1 promoter variation implicates shear-induced NOS3 gene expression and endothelial function in prehypertensives and stage I hypertensives. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H2320-7	5.2	33
107	Tyrosine-phosphorylated calmodulin has reduced biological activity. <i>Archives of Biochemistry and Biophysics</i> , 1994 , 315, 119-26	4.1	33
106	The Role of Mechanical Stimulation in Recovery of Bone Loss-High versus Low Magnitude and Frequency of Force. <i>Life</i> , 2014 , 4, 117-30	3	32
105	IkappaBalpha-dependent regulation of low-shear flow-induced NF-kappa B activity: role of nitric oxide. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 284, C1039-47	5.4	32
104	Disturbed Flow Increases UBE2C (Ubiquitin E2 Ligase C) via Loss of miR-483-3p, Inducing Aortic Valve Calcification by the pVHL (von Hippel-Lindau Protein) and HIF-1[̢]Pathway in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 467-481	9.4	32
103	Dynamic immune cell accumulation during flow-induced atherogenesis in mouse carotid artery: an expanded flow cytometry method. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 623-32	9.4	31
102	Endothelial NOS-dependent activation of c-Jun NH(2)- terminal kinase by oxidized low-density lipoprotein. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H2705-13	5.2	31
101	Identification of side- and shear-dependent microRNAs regulating porcine aortic valve pathogenesis. <i>Scientific Reports</i> , 2016 , 6, 25397	4.9	31

100	The novel coronary artery disease risk gene JCAD/KIAA1462 promotes endothelial dysfunction and atherosclerosis. <i>European Heart Journal</i> , 2019 , 40, 2398-2408	9.5	30
99	Affinity-Driven Design of Cargo-Switching Nanoparticles to Leverage a Cholesterol-Rich Microenvironment for Atherosclerosis Therapy. <i>ACS Nano</i> , 2020 , 14, 6519-6531	16.7	30
98	Shear-Sensitive Genes in Aortic Valve Endothelium. <i>Antioxidants and Redox Signaling</i> , 2016 , 25, 401-14	8.4	30
97	X-linked inhibitor of apoptosis protein is an important regulator of vascular endothelial growth factor-dependent bovine aortic endothelial cell survival. <i>Circulation Research</i> , 2008 , 102, 896-904	15.7	30
96	Ascorbic acid synthesis due to L-gulono-1,4-lactone oxidase expression enhances NO production in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 345, 1657-62	3.4	30
95	Activation of c-Jun N-terminal kinase and apoptosis in endothelial cells mediated by endogenous generation of hydrogen peroxide. <i>Biological Chemistry</i> , 2002 , 383, 693-701	4.5	30
94	3D Imaging and Quantitative Analysis of Vascular Networks: A Comparison of Ultramicroscopy and Micro-Computed Tomography. <i>Theranostics</i> , 2018 , 8, 2117-2133	12.1	29
93	Disturbed Flow Promotes Arterial Stiffening Through Thrombospondin-1. <i>Circulation</i> , 2017 , 136, 1217-1227	13.7	29
92	The role of the vascular dendritic cell network in atherosclerosis. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 305, C1-21	5.4	27
91	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018 , 9, 2292	17.4	26
90	Development of immortalized mouse aortic endothelial cell lines. <i>Vascular Cell</i> , 2014 , 6, 7	1	26
89	An improved method to measure nitrate/nitrite with an NO-selective electrochemical sensor. <i>Nitric Oxide - Biology and Chemistry</i> , 2007 , 16, 306-12	5	26
88	Mechanical inhibition of RANKL expression is regulated by H-Ras-GTPase. <i>Journal of Biological Chemistry</i> , 2006 , 281, 1412-8	5.4	25
87	Optimization of isolation and functional characterization of primary murine aortic endothelial cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2003 , 10, 103-9		25
86	Altered Amygdala Resting-State Functional Connectivity and Hemispheric Asymmetry in Patients With Social Anxiety Disorder. <i>Frontiers in Psychiatry</i> , 2018 , 9, 164	5	24
85	Identification, partial purification, and characterization of two guanosine triphosphate-binding proteins associated with insulin receptors. <i>Endocrinology</i> , 1992 , 131, 2855-62	4.8	24
84	Recent advances in nanomaterials for therapy and diagnosis for atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , 2021 , 170, 142-199	18.5	24
83	Vascular injury involves the overoxidation of peroxiredoxin type II and is recovered by the peroxiredoxin activity mimetic that induces reendothelialization. <i>Circulation</i> , 2013 , 128, 834-44	16.7	23

82	Reversible glutathiolation of caspase-3 by glutaredoxin as a novel redox signaling mechanism in tumor necrosis factor-alpha-induced cell death. <i>Circulation Research</i> , 2007 , 100, 152-4	15.7	23
81	High glucose induced NF-kappaB DNA-binding activity in HAEC is maintained under low shear stress but inhibited under high shear stress: role of nitric oxide. <i>Atherosclerosis</i> , 2003 , 171, 225-34	3.1	23
80	Mechanosensitive microRNA-181b Regulates Aortic Valve Endothelial Matrix Degradation by Targeting TIMP3. <i>Cardiovascular Engineering and Technology</i> , 2018 , 9, 141-150	2.2	22
79	The bone morphogenic protein inhibitor, noggin, reduces glycemia and vascular inflammation in db/db mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H747-55	5.2	22
78	Laminar shear stress upregulates endothelial Ca ²⁺ -activated K ⁺ channels KCa2.3 and KCa3.1 via a Ca ²⁺ /calmodulin-dependent protein kinase kinase/Akt/p300 cascade. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H484-93	5.2	22
77	X-linked inhibitor of apoptosis protein controls alpha5-integrin-mediated cell adhesion and migration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H300-9	5.2	22
76	8-Hydroxy-2-deoxyguanosine prevents plaque formation and inhibits vascular smooth muscle cell activation through Rac1 inactivation. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 109-21	7.8	21
75	Differences in valvular and vascular cell responses to strain in osteogenic media. <i>Biomaterials</i> , 2011 , 32, 2885-93	15.6	21
74	Disturbed flow enhances inflammatory signaling and atherogenesis by increasing thioredoxin-1 level in endothelial cell nuclei. <i>PLoS ONE</i> , 2014 , 9, e108346	3.7	21
73	An insulin receptor peptide (1135-1156) stimulates guanosine 5R[gamma-thio]triphosphate binding to the 67 kDa G-protein associated with the insulin receptor. <i>Biochemical Journal</i> , 1993 , 294 (Pt 1), 19-24	2.8	20
72	Flow-dependent regulation of genome-wide mRNA and microRNA expression in endothelial cells in vivo. <i>Scientific Data</i> , 2014 , 1, 140039	8.2	19
71	Redox-sensitive Akt and Src regulate coronary collateral growth in metabolic syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1811-21	5.2	19
70	The histone demethylase JMJD2B regulates endothelial-to-mesenchymal transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4180-4187	11.5	19
69	Deep transcriptomic profiling reveals the similarity between endothelial cells cultured under static and oscillatory shear stress conditions. <i>Physiological Genomics</i> , 2016 , 48, 660-6	3.6	19
68	Laminar shear stress inhibits lipid peroxidation induced by high glucose plus arachidonic acid in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H1966-73	5.2	18
67	ZBTB46 is a shear-sensitive transcription factor inhibiting endothelial cell proliferation via gene expression regulation of cell cycle proteins. <i>Laboratory Investigation</i> , 2019 , 99, 305-318	5.9	17
66	Inorganic phosphate induces mammalian growth plate chondrocyte apoptosis in a mitochondrial pathway involving nitric oxide and JNK MAP kinase. <i>Calcified Tissue International</i> , 2011 , 88, 96-108	3.9	15
65	Caveolin-1 is transiently dephosphorylated by shear stress-activated protein tyrosine phosphatase mu. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 339, 737-41	3.4	15

64	A role for PYK2 in ANG II-dependent regulation of the PHAS-1-eIF4E complex by multiple signaling cascades in vascular smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2003 , 285, C1437-44	5.4	15
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