

Hanjoong Jo

List of Publications by Year in descending order

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231
papers

15,271
citations

13854

67
h-index

20343

116
g-index

242
all docs

242
docs citations

242
times ranked

15752
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of p47 phox in Vascular Oxidative Stress and Hypertension Caused by Angiotensin II. Hypertension, 2002, 40, 511-515.	1.3	533
2	Biological aspects of reactive nitrogen species. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 385-400.	0.5	408
3	Partial carotid ligation is a model of acutely induced disturbed flow, leading to rapid endothelial dysfunction and atherosclerosis. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H1535-H1543.	1.5	396
4	Shear Stress Stimulates Phosphorylation of Endothelial Nitric-oxide Synthase at Ser1179 by Akt-independent Mechanisms. Journal of Biological Chemistry, 2002, 277, 3388-3396.	1.6	395
5	Role of xanthine oxidoreductase and NAD(P)H oxidase in endothelial superoxide production in response to oscillatory shear stress. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2290-H2297.	1.5	392
6	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. European Heart Journal, 2014, 35, 3013-3020.	1.0	359
7	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. Circulation Research, 2004, 95, 773-779.	2.0	350
8	Caveolin-mediated regulation of signaling along the p42/44 MAP kinase cascade in vivo. FEBS Letters, 1998, 428, 205-211.	1.3	342
9	Flow-dependent regulation of endothelial nitric oxide synthase: role of protein kinases. American Journal of Physiology - Cell Physiology, 2003, 285, C499-C508.	2.1	326
10	Bone Morphogenic Protein 4 Produced in Endothelial Cells by Oscillatory Shear Stress Stimulates an Inflammatory Response. Journal of Biological Chemistry, 2003, 278, 31128-31135.	1.6	262
11	Oscillatory Shear Stress Stimulates Endothelial Production of O ₂ ⁻ from p47-dependent NAD(P)H Oxidases, Leading to Monocyte Adhesion. Journal of Biological Chemistry, 2003, 278, 47291-47298.	1.6	261
12	Flow-dependent epigenetic DNA methylation regulates endothelial gene expression and atherosclerosis. Journal of Clinical Investigation, 2014, 124, 3187-3199.	3.9	260
13	Differential Effect of Shear Stress on Extracellular Signal-regulated Kinase and N-terminal Jun Kinase in Endothelial Cells. Journal of Biological Chemistry, 1997, 272, 1395-1401.	1.6	245
14	Role of Flow-Sensitive microRNAs in Endothelial Dysfunction and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2206-2216.	1.1	230
15	Role of G proteins in shear stress-mediated nitric oxide production by endothelial cells. American Journal of Physiology - Cell Physiology, 1994, 267, C753-C758.	2.1	214
16	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. Journal of Biological Chemistry, 2003, 278, 14841-14849.	1.6	214
17	Altered Shear Stress Stimulates Upregulation of Endothelial VCAM-1 and ICAM-1 in a BMP-4 and TGF- β 1-Dependent Pathway. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 254-260.	1.1	212
18	Shear stress stimulates phosphorylation of eNOS at Ser ⁶³⁵ by a protein kinase A-dependent mechanism. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1819-H1828.	1.5	205

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19	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. <i>Nature Communications</i> , 2013, 4, 3000.	5.8	198
20	Cell signaling by reactive nitrogen and oxygen species in atherosclerosis. <i>Free Radical Biology and Medicine</i> , 2000, 28, 1780-1794.	1.3	196
21	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-H1769.	1.5	186
22	Transcriptional Profiles of Valvular and Vascular Endothelial Cells Reveal Phenotypic Differences. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 69-77.	1.1	172
23	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-H764.	1.5	172
24	KLF2 and KLF4 control endothelial identity and vascular integrity. <i>JCI Insight</i> , 2017, 2, e91700.	2.3	171
25	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, 48311-48317.	1.6	164
26	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, 32304-32311.	1.6	159
27	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-H1122.	1.5	159
28	Mechanical Activation of Hypoxia-Inducible Factor 1 α Drives Endothelial Dysfunction at Atheroprone Sites. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 2087-2101.	1.1	154
29	The NADPH oxidase Nox4 has anti-atherosclerotic functions. <i>European Heart Journal</i> , 2015, 36, 3447-3456.	1.0	150
30	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE ^{-/-} Mice. <i>ACS Nano</i> , 2015, 9, 8885-8897.	7.3	150
31	Shear stress and plaque development. <i>Expert Review of Cardiovascular Therapy</i> , 2010, 8, 545-556.	0.6	142
32	Elevated Cyclic Stretch Induces Aortic Valve Calcification in a Bone Morphogenetic Protein-Dependent Manner. <i>American Journal of Pathology</i> , 2010, 177, 49-57.	1.9	138
33	Discovery of novel mechanosensitive genes in vivo using mouse carotid artery endothelium exposed to disturbed flow. <i>Blood</i> , 2010, 116, e66-e73.	0.6	136
34	Fluid Mechanics, Arterial Disease, and Gene Expression. <i>Annual Review of Fluid Mechanics</i> , 2014, 46, 591-614.	10.8	134
35	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, 34301-34309.	1.6	131
36	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-H1293.	1.5	122

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37	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-C1221.	2.1	120
38	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. <i>Circulation</i> , 2007, 116, 1258-1266.	1.6	120
39	Nitric Oxide-Dependent Induction of Glutathione Synthesis through Increased Expression of β -Glutamylcysteine Synthetase. <i>Archives of Biochemistry and Biophysics</i> , 1998, 358, 74-82.	1.4	118
40	Bone Morphogenic Protein-4 Induces Hypertension in Mice. <i>Circulation</i> , 2006, 113, 2818-2825.	1.6	117
41	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-H2082.	1.5	117
42	The induction of GSH synthesis by nanomolar concentrations of NO in endothelial cells: a role for β -glutamylcysteine synthetase and β -glutamyl transpeptidase. <i>FEBS Letters</i> , 1999, 448, 292-296.	1.3	115
43	Mechanisms of Cell Signaling by Nitric Oxide and Peroxynitrite: From Mitochondria to MAP Kinases. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 215-229.	2.5	112
44	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, 1655-1665.	1.3	110
45	Endothelial Reprogramming by Disturbed Flow Revealed by Single-Cell RNA and Chromatin Accessibility Study. <i>Cell Reports</i> , 2020, 33, 108491.	2.9	109
46	Peroxiredoxin 2 Deficiency Exacerbates Atherosclerosis in Apolipoprotein E ^{-/-} Deficient Mice. <i>Circulation Research</i> , 2011, 109, 739-749.	2.0	107
47	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-H1486.	1.5	104
48	Expression of CYP1A1 and CYP1B1 in human endothelial cells: regulation by fluid shear stress. <i>Cardiovascular Research</i> , 2009, 81, 669-677.	1.8	98
49	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-H867.	1.5	96
50	Endothelial albumin permeability is shear dependent, time dependent, and reversible. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1991, 260, H1992-H1996.	1.5	94
51	Role of NADPH Oxidases in Disturbed Flow- and BMP4- Induced Inflammation and Atherosclerosis. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1609-1619.	2.5	92
52	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, 1574-1581.	1.2	91
53	Aortic Valve: Mechanical Environment and Mechanobiology. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1331-1346.	1.3	91
54	Prevention of Abdominal Aortic Aneurysm by Anti μ -MicroRNA-712 or Anti μ -MicroRNA-205 in Angiotensin II μ -Infused Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1412-1421.	1.1	90

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55	Flow-Dependent Epigenetic DNA Methylation in Endothelial Gene Expression and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1562-1569.	1.1	89
56	Endothelial NO synthase phosphorylated at SER635 produces NO without requiring intracellular calcium increase. <i>Free Radical Biology and Medicine</i> , 2003, 35, 729-741.	1.3	86
57	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, 587-599.	1.2	85
58	Role of flow-sensitive microRNAs and long noncoding RNAs in vascular dysfunction and atherosclerosis. <i>Vascular Pharmacology</i> , 2019, 114, 76-92.	1.0	84
59	Evidence for peroxynitrite as a signaling molecule in flow-dependent activation of c-Jun NH2-terminal kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H1647-H1653.	1.5	81
60	Laminar Shear Stress Up-regulates Peroxiredoxins (PRX) in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 1622-1627.	1.6	81
61	Anti-Inflammatory and Antiatherogenic Role of BMP Receptor II in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1350-1359.	1.1	81
62	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, 6858-6863.	3.3	80
63	Recent advances in nanomaterials for therapy and diagnosis for atherosclerosis. <i>Advanced Drug Delivery Reviews</i> , 2021, 170, 142-199.	6.6	80
64	Mechanosensitive PPAP2B Regulates Endothelial Responses to Atherorelevant Hemodynamic Forces. <i>Circulation Research</i> , 2015, 117, e41-e53.	2.0	75
65	Laminar Shear Inhibits Tubule Formation and Migration of Endothelial Cells by an Angiopoietin-2-Dependent Mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 2150-2156.	1.1	74
66	Target accessibility and signal specificity in live-cell detection of BMP-4 mRNA using molecular beacons. <i>Nucleic Acids Research</i> , 2008, 36, e30-e30.	6.5	74
67	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.	1.1	73
68	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.	1.6	73
69	Accelerated atherosclerosis development in C57Bl6 mice by overexpressing AAV-mediated PCSK9 and partial carotid ligation. <i>Laboratory Investigation</i> , 2017, 97, 935-945.	1.7	72
70	Caveolin-1 Knockout Mice Have Increased Bone Size and Stiffness. <i>Journal of Bone and Mineral Research</i> , 2007, 22, 1408-1418.	3.1	70
71	Animal, <i>In Vitro</i> , and <i>Ex Vivo</i> Models of Flow-Dependent Atherosclerosis: Role of Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1433-1448.	2.5	68
72	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, 349-354.	1.0	68

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73	Laminar Shear Stress Inhibits Cathepsin L Activity in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1784-1790.	1.1	67
74	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.	0.6	67
75	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.	1.1	67
76	Affinity-Driven Design of Cargo-Switching Nanoparticles to Leverage a Cholesterol-Rich Microenvironment for Atherosclerosis Therapy. <i>ACS Nano</i> , 2020, 14, 6519-6531.	7.3	67
77	Role of Noncoding RNAs in the Pathogenesis of Abdominal Aortic Aneurysm. <i>Circulation Research</i> , 2019, 124, 619-630.	2.0	66
78	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-H577.	1.5	64
79	Effects of pyrrolidine dithiocarbamate on endothelial cells: protection against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1999, 26, 1138-1145.	1.3	62
80	Vascular Semaphorin 7A Upregulation by Disturbed Flow Promotes Atherosclerosis Through Endothelial β 1 Integrin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 335-343.	1.1	62
81	The novel coronary artery disease risk gene <i>JCAD/KIAA1462</i> promotes endothelial dysfunction and atherosclerosis. <i>European Heart Journal</i> , 2019, 40, 2398-2408.	1.0	60
82	Coordinated regulation of endothelial nitric oxide synthase activity by phosphorylation and subcellular localization. <i>Free Radical Biology and Medicine</i> , 2006, 41, 144-153.	1.3	56
83	Angiotensin-2 Stimulates Blood Flow Recovery After Femoral Artery Occlusion by Inducing Inflammation and Arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 1989-1995.	1.1	56
84	The role of epigenetics in the endothelial cell shear stress response and atherosclerosis. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 67, 167-176.	1.2	54
85	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 α (Hypoxia-Inducible Factor-1 α) Pathway in Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 467-481.	1.1	54
86	Phosphatidylinositol 3-kinase β mediates shear stress-dependent activation of JNK in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 275, H1898-H1904.	1.5	53
87	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, , .	0.2	53
88	The role of endothelial mechanosensitive genes in atherosclerosis and \omicron omics approaches. <i>Archives of Biochemistry and Biophysics</i> , 2016, 591, 111-131.	1.4	53
89	Downregulation of Bone Morphogenetic Protein 4 Expression in Coronary Arterial Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 776-782.	1.1	51
90	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, 328-336.	2.0	51

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91	Early determinants of H ₂ O ₂ -induced endothelial dysfunction. <i>Free Radical Biology and Medicine</i> , 2006, 41, 810-817.	1.3	50
92	Tetrahydrobiopterin Deficiency and Nitric Oxide Synthase Uncoupling Contribute to Atherosclerosis Induced by Disturbed Flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 1547-1554.	1.1	50
93	Embryonic Stem Cell-Derived Endothelial Cells May Lack Complete Functional Maturation in vitro. <i>Journal of Vascular Research</i> , 2006, 43, 411-421.	0.6	49
94	The Effects of Combined Cyclic Stretch and Pressure on the Aortic Valve Interstitial Cell Phenotype. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1654-1667.	1.3	49
95	The interplay of nitric oxide and peroxynitrite with signal transduction pathways: Implications for disease. <i>Seminars in Perinatology</i> , 1997, 21, 351-366.	1.1	48
96	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{-/-} mice with partial carotid ligation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R62-R72.	0.9	48
97	Disturbed Flow Promotes Arterial Stiffening Through Thrombospondin-1. <i>Circulation</i> , 2017, 136, 1217-1232.	1.6	48
98	Flow-dependent expression of ectonucleotide tri(di)phosphohydrolase-1 and suppression of atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015, 125, 3027-3036.	3.9	47
99	Plasma membrane requirements for 1 α ,25(OH) ₂ D ₃ dependent PKC signaling in chondrocytes and osteoblasts. <i>Steroids</i> , 2006, 71, 286-290.	0.8	46
100	Angiotensin II induces DNA damage via AT1 receptor and NADPH oxidase isoform Nox4. <i>Mutagenesis</i> , 2012, 27, 673-681.	1.0	46
101	Altered Amygdala Resting-State Functional Connectivity and Hemispheric Asymmetry in Patients With Social Anxiety Disorder. <i>Frontiers in Psychiatry</i> , 2018, 9, 164.	1.3	45
102	Low magnitude and high frequency mechanical loading prevents decreased bone formation responses of 2T3 preosteoblasts. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 306-316.	1.2	44
103	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. <i>Nature Communications</i> , 2018, 9, 2292.	5.8	44
104	Identification of side- and shear-dependent microRNAs regulating porcine aortic valve pathogenesis. <i>Scientific Reports</i> , 2016, 6, 25397.	1.6	43
105	3D Imaging and Quantitative Analysis of Vascular Networks: A Comparison of Ultramicroscopy and Micro-Computed Tomography. <i>Theranostics</i> , 2018, 8, 2117-2133.	4.6	41
106	Regulation of Growth Plate Chondrocytes by 1,25-Dihydroxyvitamin D ₃ Requires Caveolae and Caveolin-1. <i>Journal of Bone and Mineral Research</i> , 2006, 21, 1637-1647.	3.1	40
107	Shear-Sensitive Genes in Aortic Valve Endothelium. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 401-414.	2.5	40
108	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.	0.5	40

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109	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-H2713.	1.5	39
110	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-H2327.	1.5	39
111	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.	3.3	39
112	Nitric oxide, free radicals and cell signalling in cardiovascular disease. <i>Biochemical Society Transactions</i> , 1997, 25, 925-929.	1.6	38
113	Dynamic Immune Cell Accumulation During Flow-Induced Atherogenesis in Mouse Carotid Artery. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 623-632.	1.1	38
114	The Role of Mechanical Stimulation in Recovery of Bone Loss—High versus Low Magnitude and Frequency of Force. <i>Life</i> , 2014, 4, 117-130.	1.1	38
115	Delivery of Anti-microRNA-712 to Inflamed Endothelial Cells Using Poly(amino ester) Nanoparticles Conjugated with VCAM-1 Targeting Peptide. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001894.	3.9	38
116	Mechanical forces regulate endothelial-to-mesenchymal transition and atherosclerosis via an Alk5-Shc mechanotransduction pathway. <i>Science Advances</i> , 2021, 7, .	4.7	37
117	Î±-dependent regulation of low-shear flow-induced NF-Î± activity: role of nitric oxide. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C1039-C1047.	2.1	36
118	The role of the vascular dendritic cell network in atherosclerosis. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C1-C21.	2.1	36
119	Tyrosine-Phosphorylated Calmodulin Has Reduced Biological Activity. <i>Archives of Biochemistry and Biophysics</i> , 1994, 315, 119-126.	1.4	34
120	Ascorbic acid synthesis due to l-gulonolactone oxidase expression enhances NO production in endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1657-1662.	1.0	34
121	Development of immortalized mouse aortic endothelial cell lines. <i>Vascular Cell</i> , 2014, 6, 7.	0.2	33
122	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.	1.2	32
123	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.	2.0	32
124	Mechanosensitive microRNA-181b Regulates Aortic Valve Endothelial Matrix Degradation by Targeting TIMP3. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 141-150.	0.7	32
125	An improved method to measure nitrate/nitrite with an NO-selective electrochemical sensor. <i>Nitric Oxide - Biology and Chemistry</i> , 2007, 16, 306-312.	1.2	30
126	Differences in valvular and vascular cell responses to strain in osteogenic media. <i>Biomaterials</i> , 2011, 32, 2885-2893.	5.7	30

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127	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.	1.7	30
128	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, 109-121.	1.3	29
129	Mechanical Inhibition of RANKL Expression Is Regulated by H-Ras-GTPase. <i>Journal of Biological Chemistry</i> , 2006, 281, 1412-1418.	1.6	28
130	High glucose induced NF- κ B 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, 225-234.	0.4	27
131	Reversible Glutathiolation of Caspase-3 by Glutaredoxin as a Novel Redox Signaling Mechanism in Tumor Necrosis Factor- α -Induced Cell Death. <i>Circulation Research</i> , 2007, 100, 152-154.	2.0	27
132	Optimization of Isolation and Functional Characterization of Primary Murine Aortic Endothelial Cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2003, 10, 103-109.	1.7	26
133	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-H493.	1.5	26
134	Identification, partial purification, and characterization of two guanosine triphosphate-binding proteins associated with insulin receptors. <i>Endocrinology</i> , 1992, 131, 2855-2862.	1.4	25
135	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, 834-844.	1.6	25
136	Flow-dependent regulation of genome-wide mRNA and microRNA expression in endothelial cells in vivo. <i>Scientific Data</i> , 2014, 1, 140039.	2.4	25
137	Disturbed Flow Enhances Inflammatory Signaling and Atherogenesis by Increasing Thioredoxin-1 Level in Endothelial Cell Nuclei. <i>PLoS ONE</i> , 2014, 9, e108346.	1.1	25
138	X-linked inhibitor of apoptosis protein controls α 5 β 1-integrin-mediated cell adhesion and migration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H300-H309.	1.5	24
139	The bone morphogenic protein inhibitor, noggin, reduces glycemia and vascular inflammation in <i>db/db</i> mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H747-H755.	1.5	24
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