

Kimiko Yamamoto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	3,087 citations	27 h-index	55 g-index
57 ext. papers	3,469 ext. citations	6.2 avg, IF	5.14 L-index

#	Paper	IF	Citations
45	Functional lipidomics of vascular endothelial cells in response to laminar shear stress. <i>FASEB Journal</i> , 2021 , 35, e21301	0.9	5
44	Hemodynamic Forces, Endothelial Mechanotransduction, and Vascular Diseases. <i>Magnetic Resonance in Medical Sciences</i> , 2021 ,	2.9	8
43	Shear stress activates mitochondrial oxidative phosphorylation by reducing plasma membrane cholesterol in vascular endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33660-33667	11.5	14
42	Extracellular ATP Augments Antigen-Induced Murine Mast Cell Degranulation and Allergic Responses via P2X4 Receptor Activation. <i>Journal of Immunology</i> , 2020 , 204, 3077-3085	5.3	7
41	Two Diverse Hemodynamic Forces, a Mechanical Stretch and a High Wall Shear Stress, Determine Intracranial Aneurysm Formation. <i>Translational Stroke Research</i> , 2020 , 11, 80-92	7.8	21
40	A biomechanically derived minimum work model of the fish gill lamellar system exhibits its exquisite morphological arrangement and perfusate regulation for oxygen uptake from water. <i>Journal of Biomechanics</i> , 2019 , 88, 155-163	2.9	0
39	Co-Stimulation of Purinergic P2X4 and Prostanoid EP3 Receptors Triggers Synergistic Degranulation in Murine Mast Cells. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	4
38	Disruption of P2X4 purinoceptor and suppression of the inflammation associated with cerebral aneurysm formation. <i>Journal of Neurosurgery</i> , 2019 , 1-13	3.2	3
37	Shear stress augments mitochondrial ATP generation that triggers ATP release and Ca signaling in vascular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1477-H1485	5.2	33
36	Plasma membrane-mediated mechanosensing in vascular endothelial cells. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, SY74-1	0	
35	Emerging Role of Plasma Membranes in Vascular Endothelial Mechanosensing. <i>Circulation Journal</i> , 2018 , 82, 2691-2698	2.9	19
34	Flow-Dependent Endothelial YAP Regulation Contributes to Vessel Maintenance. <i>Developmental Cell</i> , 2017 , 40, 523-536.e6	10.2	157
33	Sustained expression of MCP-1 by low wall shear stress loading concomitant with turbulent flow on endothelial cells of intracranial aneurysm. <i>Acta Neuropathologica Communications</i> , 2016 , 4, 48	7.3	31
32	Phosphorylation of PACSIN2 by protein kinase C triggers the removal of caveolae from the plasma membrane. <i>Journal of Cell Science</i> , 2015 , 128, 2766-80	5.3	30
31	Vascular endothelial cell membranes differentiate between stretch and shear stress through transitions in their lipid phases. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H1178-85	5.2	32
30	Endothelial cell and model membranes respond to shear stress by rapidly decreasing the order of their lipid phases. <i>Journal of Cell Science</i> , 2013 , 126, 1227-34	5.3	59
29	Flow detection and calcium signalling in vascular endothelial cells. <i>Cardiovascular Research</i> , 2013 , 99, 260-8	9.9	136

28	Dynamic imaging of flow-induced endothelial cell responses. <i>Japanese Journal of Thrombosis and Hemostasis</i> , 2013 , 24, 569-575	0	
27	Arterial shear stress augments the differentiation of endothelial progenitor cells adhered to VEGF-bound surfaces. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 91-7	3.4	29
26	Fluid shear stress induces differentiation of circulating phenotype endothelial progenitor cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C595-606	5.4	61
25	2SH-06 Chemiluminescence imaging of flow-induced ATP release at caveolae in vascular endothelial cells(2SH Star of life shined by frontier microscopies,Symposium,The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S16-S17	0	
24	8F15 Endothelial mechanotransduction of shear stress and its role in he control of vascular functions. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2012 , 2012.24, _8F15-1_- _8F15-2_	0	
23	Molecular Mechanisms Underlying Mechanosensing in Vascular Biology 2011 , 21-37		
22	Visualization of flow-induced ATP release and triggering of Ca ²⁺ waves at caveolae in vascular endothelial cells. <i>Journal of Cell Science</i> , 2011 , 124, 3477-83	5.3	99
21	New molecular mechanisms for cardiovascular disease:blood flow sensing mechanism in vascular endothelial cells. <i>Journal of Pharmacological Sciences</i> , 2011 , 116, 323-31	3.7	36
20	Effects of shear stress and stretch on endothelial function. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1389-403	8.4	132
19	Differentiation of stem/progenitor cells into vascular cells in response to fluid mechanical forces. <i>Journal of Biorheology</i> , 2010 , 24, 1-10	0.3	3
18	Study on the Sliding Friction of Endothelial Cells Cultured on Hydrogel and the Role of Glycocalyx on Friction Reduction. <i>Advanced Engineering Materials</i> , 2010 , 12, B628-B636	3.5	9
17	Fluid shear stress induces arterial differentiation of endothelial progenitor cells. <i>Journal of Applied Physiology</i> , 2009 , 106, 203-11	3.7	138
16	Vascular mechanobiology: endothelial cell responses to fluid shear stress. <i>Circulation Journal</i> , 2009 , 73, 1983-92	2.9	272
15	Differential gene responses in endothelial cells exposed to a combination of shear stress and cyclic stretch. <i>Journal of Biotechnology</i> , 2008 , 133, 239-44	3.7	44
14	Cyclic strain induces mouse embryonic stem cell differentiation into vascular smooth muscle cells by activating PDGF receptor beta. <i>Journal of Applied Physiology</i> , 2008 , 104, 766-72	3.7	97
13	Involvement of cell surface ATP synthase in flow-induced ATP release by vascular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1646-53	5.2	87
12	Mechanical Stress-induced Differentiation of Embryonic Stem Cells and its Application to Tissue Engineering. <i>Journal of the Robotics Society of Japan</i> , 2007 , 25, 215-216	0.1	
11	Mechanical Stress-Induced Selective Differentiation of Embryonic Stem Cells. <i>Journal of Life Support Engineering</i> , 2007 , 19, 104-104	0	

10	Impaired flow-dependent control of vascular tone and remodeling in P2X4-deficient mice. <i>Nature Medicine</i> , 2006 , 12, 133-7	50.5	274
9	Differentiation from embryonic stem cells to vascular wall cells under in vitro pulsatile flow loading. <i>Journal of Artificial Organs</i> , 2005 , 8, 110-8	1.8	66
8	Fluid shear stress induces differentiation of Flk-1-positive embryonic stem cells into vascular endothelial cells in vitro. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1915-24	5.2	259
7	Differential regulation of urokinase-type plasminogen activator expression by fluid shear stress in human coronary artery endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H2027-34	5.2	44
6	Global analysis of shear stress-responsive genes in vascular endothelial cells. <i>Journal of Atherosclerosis and Thrombosis</i> , 2003 , 10, 304-13	4	112
5	Endogenously released ATP mediates shear stress-induced Ca ²⁺ influx into pulmonary artery endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H793-803	5.2	124
4	Proliferation, differentiation, and tube formation by endothelial progenitor cells in response to shear stress. <i>Journal of Applied Physiology</i> , 2003 , 95, 2081-8	3.7	257
3	Sp1-mediated downregulation of P2X4 receptor gene transcription in endothelial cells exposed to shear stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H2214-21	5.2	31
2	P2X(4) receptors mediate ATP-induced calcium influx in human vascular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H285-92	5.2	151
1	Fluid shear stress activates Ca(2+) influx into human endothelial cells via P2X4 purinoceptors. <i>Circulation Research</i> , 2000 , 87, 385-91	15.7	196