

Masuko Ushio-Fukai

List of Publications by Citations

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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.

71 papers	11,162 citations	41 h-index	73 g-index
73 ext. papers	12,173 ext. citations	7.9 avg, IF	6.62 L-index

#	Paper	IF	Citations
71	NAD(P)H oxidase: role in cardiovascular biology and disease. <i>Circulation Research</i> , 2000 , 86, 494-501	15.7	2467
70	Superoxide dismutases: role in redox signaling, vascular function, and diseases. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1583-606	8.4	1093
69	Modulation of protein kinase activity and gene expression by reactive oxygen species and their role in vascular physiology and pathophysiology. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 2175-83	9.4	776
68	Role of NADH/NADPH oxidase-derived H ₂ O ₂ in angiotensin II-induced vascular hypertrophy. <i>Hypertension</i> , 1998 , 32, 488-95	8.5	551
67	Reactive oxygen species and angiogenesis: NADPH oxidase as target for cancer therapy. <i>Cancer Letters</i> , 2008 , 266, 37-52	9.9	462
66	Novel role of gp91(phox)-containing NAD(P)H oxidase in vascular endothelial growth factor-induced signaling and angiogenesis. <i>Circulation Research</i> , 2002 , 91, 1160-7	15.7	424
65	Regulation of the vascular extracellular superoxide dismutase by nitric oxide and exercise training. <i>Journal of Clinical Investigation</i> , 2000 , 105, 1631-9	15.9	395
64	Redox signaling in angiogenesis: role of NADPH oxidase. <i>Cardiovascular Research</i> , 2006 , 71, 226-35	9.9	364
63	Reactive oxygen species as mediators of angiogenesis signaling: role of NAD(P)H oxidase. <i>Molecular and Cellular Biochemistry</i> , 2004 , 264, 85-97	4.2	348
62	Compartmentalization of redox signaling through NADPH oxidase-derived ROS. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1289-99	8.4	280
61	Tumour necrosis factor alpha activates a p22phox-based NADH oxidase in vascular smooth muscle. <i>Biochemical Journal</i> , 1998 , 329 (Pt 3), 653-7	3.8	269
60	Localizing NADPH oxidase-derived ROS. <i>Science Signaling</i> , 2006 , 2006, re8	8.8	265
59	Role of gp91phox (Nox2)-containing NAD(P)H oxidase in angiogenesis in response to hindlimb ischemia. <i>Circulation</i> , 2005 , 111, 2347-55	16.7	231
58	IQGAP1, a novel vascular endothelial growth factor receptor binding protein, is involved in reactive oxygen species--dependent endothelial migration and proliferation. <i>Circulation Research</i> , 2004 , 95, 276-83	15.7	201
57	VEGF signaling through NADPH oxidase-derived ROS. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 731-9	8.4	189
56	Modulation of extracellular superoxide dismutase expression by angiotensin II and hypertension. <i>Circulation Research</i> , 1999 , 85, 23-8	15.7	168
55	Novel role of antioxidant-1 (Atox1) as a copper-dependent transcription factor involved in cell proliferation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9157-67	5.4	167

54	Role of nox2-based NADPH oxidase in bone marrow and progenitor cell function involved in neovascularization induced by hindlimb ischemia. <i>Circulation Research</i> , 2008 , 103, 212-20	15.7	159
53	Role of protein tyrosine phosphatase 1B in vascular endothelial growth factor signaling and cell-cell adhesions in endothelial cells. <i>Circulation Research</i> , 2008 , 102, 1182-91	15.7	149
52	Extracellular SOD-derived H ₂ O ₂ promotes VEGF signaling in caveolae/lipid rafts and post-ischemic angiogenesis in mice. <i>PLoS ONE</i> , 2010 , 5, e10189	3.7	128
51	Novel role of ARF6 in vascular endothelial growth factor-induced signaling and angiogenesis. <i>Circulation Research</i> , 2005 , 96, 467-75	15.7	127
50	Redox regulation of stem/progenitor cells and bone marrow niche. <i>Free Radical Biology and Medicine</i> , 2013 , 54, 26-39	7.8	126
49	Novel role of NADPH oxidase in angiogenesis and stem/progenitor cell function. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 2517-33	8.4	123
48	Platelet protein disulfide isomerase is required for thrombus formation but not for hemostasis in mice. <i>Blood</i> , 2013 , 122, 1052-61	2.2	118
47	ROS-induced ROS release orchestrated by Nox4, Nox2, and mitochondria in VEGF signaling and angiogenesis. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 312, C749-C764	5.4	112
46	Essential role of extracellular SOD in reparative neovascularization induced by hindlimb ischemia. <i>Circulation Research</i> , 2007 , 101, 409-19	15.7	84
45	Convergence of redox-sensitive and mitogen-activated protein kinase signaling pathways in tumor necrosis factor-alpha-mediated monocyte chemoattractant protein-1 induction in vascular smooth muscle cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 385-91	9.4	83
44	Differential Roles of the NADPH-Oxidase 1 and 2 in Platelet Activation and Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 846-54	9.4	74
43	Redox Regulation of Mitochondrial Fission Protein Drp1 by Protein Disulfide Isomerase Limits Endothelial Senescence. <i>Cell Reports</i> , 2018 , 23, 3565-3578	10.6	73
42	cAbl tyrosine kinase mediates reactive oxygen species- and caveolin-dependent AT1 receptor signaling in vascular smooth muscle: role in vascular hypertrophy. <i>Circulation Research</i> , 2005 , 97, 829-36	15.7	72
41	Essential role for the Menkes ATPase in activation of extracellular superoxide dismutase: implication for vascular oxidative stress. <i>FASEB Journal</i> , 2006 , 20, 334-6	0.9	69
40	Cross-Talk between NADPH Oxidase and Mitochondria: Role in ROS Signaling and Angiogenesis. <i>Cells</i> , 2020 , 9,	7.9	67
39	Novel role of p66Shc in ROS-dependent VEGF signaling and angiogenesis in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H724-32	5.2	63
38	Arachidonic acid metabolites mediate angiotensin II-induced NADH/NADPH oxidase activity and hypertrophy in vascular smooth muscle cells. <i>Antioxidants and Redox Signaling</i> , 1999 , 1, 167-79	8.4	61
37	Unexpected role of the copper transporter ATP7A in PDGF-induced vascular smooth muscle cell migration. <i>Circulation Research</i> , 2010 , 107, 787-99	15.7	56

36	Caveolin-dependent angiotensin II type 1 receptor signaling in vascular smooth muscle. <i>Hypertension</i> , 2006 , 48, 797-803	8.5	51
35	Localized cysteine sulfenic acid formation by vascular endothelial growth factor: role in endothelial cell migration and angiogenesis. <i>Free Radical Research</i> , 2011 , 45, 1124-35	4	50
34	Role of Menkes ATPase in angiotensin II-induced hypertension: a key modulator for extracellular superoxide dismutase function. <i>Hypertension</i> , 2008 , 52, 945-51	8.5	50
33	Copper transporters and copper chaperones: roles in cardiovascular physiology and disease. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C186-C201	5.4	48
32	Vascular signaling through G protein-coupled receptors: new concepts. <i>Current Opinion in Nephrology and Hypertension</i> , 2009 , 18, 153-9	3.5	47
31	Copper Transport Protein Antioxidant-1 Promotes Inflammatory Neovascularization via Chaperone and Transcription Factor Function. <i>Scientific Reports</i> , 2015 , 5, 14780	4.9	45
30	Endothelial Antioxidant-1: a Key Mediator of Copper-dependent Wound Healing in vivo. <i>Scientific Reports</i> , 2016 , 6, 33783	4.9	37
29	Injury-Mediated Vascular Regeneration Requires Endothelial ER71/ETV2. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 86-96	9.4	36
28	NADPH oxidase 2 regulates bone marrow microenvironment following hindlimb ischemia: role in reparative mobilization of progenitor cells. <i>Stem Cells</i> , 2012 , 30, 923-34	5.8	33
27	Novel role of reactive oxygen species-activated Trp melastatin channel-2 in mediating angiogenesis and postischemic neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 877-87	9.4	31
26	Critical role of endothelial hydrogen peroxide in post-ischemic neovascularization. <i>PLoS ONE</i> , 2013 , 8, e57618	3.7	31
25	Mechanotransduction in the vasculature: emerging concepts in sensing, transduction and physiological responses. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H1451-62	5.2	30
24	Modification of Cardiac Progenitor Cell-Derived Exosomes by miR-322 Provides Protection against Myocardial Infarction through Nox2-Dependent Angiogenesis. <i>Antioxidants</i> , 2019 , 8,	7.1	30
23	KIF13B regulates angiogenesis through Golgi to plasma membrane trafficking of VEGFR2. <i>Journal of Cell Science</i> , 2014 , 127, 4518-30	5.3	27
22	Copper transporter ATP7A protects against endothelial dysfunction in type 1 diabetic mice by regulating extracellular superoxide dismutase. <i>Diabetes</i> , 2013 , 62, 3839-50	0.9	26
21	G-Protein binding domains of the angiotensin II AT1A receptors mapped with synthetic peptides selected from the receptor sequence. <i>Biochemical Journal</i> , 1998 , 332 (Pt 3), 781-7	3.8	26
20	Embryonic Stem Cell Differentiation to Functional Arterial Endothelial Cells through Sequential Activation of ETV2 and NOTCH1 Signaling by HIF1. <i>Stem Cell Reports</i> , 2017 , 9, 796-806	8	21
19	Akt2 (Protein Kinase B Beta) Stabilizes ATP7A, a Copper Transporter for Extracellular Superoxide Dismutase, in Vascular Smooth Muscle: Novel Mechanism to Limit Endothelial Dysfunction in Type 2 Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 529-541	9.4	20

18	P21-activated kinase in inflammatory and cardiovascular disease. <i>Cellular Signalling</i> , 2014 , 26, 2060-9	4.9	20
17	Short-term regular aerobic exercise reduces oxidative stress produced by acute in the adipose microvasculature. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H896-H906	5.2	18
16	Interplay Between Reactive Oxygen/Reactive Nitrogen Species and Metabolism in Vascular Biology and Disease. <i>Antioxidants and Redox Signaling</i> , 2021 , 34, 1319-1354	8.4	13
15	Copper Transporter ATP7A (Copper-Transporting P-Type ATPase/Menkes ATPase) Limits Vascular Inflammation and Aortic Aneurysm Development: Role of MicroRNA-125b. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 2320-2337	9.4	9
14	Novel interaction of antioxidant-1 with TRAF4: role in inflammatory responses in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 317, C1161-C1171	5.4	6
13	Reactive Oxygen Species as Mediators of Angiogenesis. <i>FASEB Journal</i> , 2006 , 20,	0.9	5
12	Shear and Integrin Outside-In Signaling Activate NADPH-Oxidase 2 to Promote Platelet Activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 1638-1653	9.4	5
11	Copper transporter ATP7A interacts with IQGAP1, a Rac1 binding scaffolding protein: role in PDGF-induced VSMC migration and vascular remodeling. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C850-C862	5.4	5
10	The P-type ATPase transporter ATP7A promotes angiogenesis by limiting autophagic degradation of VEGFR2. <i>Nature Communications</i> , 2021 , 12, 3091	17.4	4
9	Cysteine oxidation of copper transporter CTR1 drives VEGFR2 signalling and angiogenesis.. <i>Nature Cell Biology</i> , 2022 , 24, 35-50	23.4	3
8	Dichotomous Role of Tumor Necrosis Factor in Pulmonary Barrier Function and Alveolar Fluid Clearance.. <i>Frontiers in Physiology</i> , 2021 , 12, 793251	4.6	2
7	Exercise improves angiogenic function of circulating exosomes in type 2 diabetes: Role of exosomal SOD3.. <i>FASEB Journal</i> , 2022 , 36, e22177	0.9	0
6	Aspects of Nox/Duox Signaling	317-349	
5	Copper Activates Extracellular Superoxide Dismutase Gene Transcription by a Novel Copper Dependent Transcription Factor Antioxidant-1. <i>FASEB Journal</i> , 2006 , 20, A1452	0.9	
4	Redox State and Regulation of Angiogenic Responses	2007 , 217-252	
3	Role of Copper Transport System for Extracellular Superoxide Dismutase in Angiotensin II-Induced Hypertension. <i>FASEB Journal</i> , 2009 , 23, 231.3	0.9	
2	IQ motif-containing GTPase-activating protein 1 is essential for the optimal maintenance of lung ILC2s. <i>International Immunology</i> , 2020 , 32, 233-241	4.9	
1	Reactive oxygen species-induced reactive oxygen species release in vascular signaling and disease	2021 , 17-27	

