

Akos Koller

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117
papers

3,445
citations

35
h-index

57
g-index

119
ext. papers

3,833
ext. citations

4.3
avg, IF

5
L-index

#	Paper	IF	Citations
117	Ischaemic heart disease in women: are there sex differences in pathophysiology and risk factors? Position paper from the working group on coronary pathophysiology and microcirculation of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2011 , 90, 9-17	9.9	203
116	Obesity in aging exacerbates blood-brain barrier disruption, neuroinflammation, and oxidative stress in the mouse hippocampus: effects on expression of genes involved in beta-amyloid generation and Alzheimer's disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69, 1212-26	6.4	193
115	Exercise training augments flow-dependent dilation in rat skeletal muscle arterioles. Role of endothelial nitric oxide and prostaglandins. <i>Circulation Research</i> , 1995 , 76, 544-50	15.7	177
114	Enhanced release of prostaglandins contributes to flow-induced arteriolar dilation in eNOS knockout mice. <i>Circulation Research</i> , 1999 , 85, 288-93	15.7	159
113	Age-related autoregulatory dysfunction and cerebrovascular injury in mice with angiotensin II-induced hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1732-42	7.3	145
112	Regulation of coronary blood flow in health and ischemic heart disease. <i>Progress in Cardiovascular Diseases</i> , 2015 , 57, 409-22	8.5	122
111	Superoxide released to high intra-arteriolar pressure reduces nitric oxide-mediated shear stress- and agonist-induced dilations. <i>Circulation Research</i> , 1998 , 83, 960-5	15.7	117
110	Dysfunction of nitric oxide mediation in isolated rat arterioles with methionine diet-induced hyperhomocysteinemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 1899-904	9.4	115
109	EDHF mediates flow-induced dilation in skeletal muscle arterioles of female eNOS-KO mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H2462-9	5.2	103
108	Aging exacerbates obesity-induced cerebrovascular rarefaction, neurovascular uncoupling, and cognitive decline in mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69, 1339-52	6.4	101
107	PECAM-1 mediates NO-dependent dilation of arterioles to high temporal gradients of shear stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 1590-5	9.4	92
106	Depression and coronary heart disease: 2018 position paper of the ESC working group on coronary pathophysiology and microcirculation. <i>European Heart Journal</i> , 2020 , 41, 1687-1696	9.5	90
105	Contribution of flow-dependent vasomotor mechanisms to the autoregulation of cerebral blood flow. <i>Journal of Vascular Research</i> , 2012 , 49, 375-89	1.9	82
104	Signaling pathways of mechanotransduction in arteriolar endothelium and smooth muscle cells in hypertension. <i>Microcirculation</i> , 2002 , 9, 277-94	2.9	71
103	17beta-estradiol restores endothelial nitric oxide release to shear stress in arterioles of male hypertensive rats. <i>Circulation</i> , 2000 , 101, 94-100	16.7	71
102	Gender-specific compensation for the lack of NO in the mediation of flow-induced arteriolar dilation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H2456-61	5.2	67
101	Regulation of the vasomotor activity of lymph microvessels by nitric oxide and prostaglandins. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R790-6	3.2	66

100	IGF-1 deficiency impairs cerebral myogenic autoregulation in hypertensive mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1887-97	7.3	64
99	Isolated human and rat cerebral arteries constrict to increases in flow: role of 20-HETE and TP receptors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 2096-105	7.3	61
98	ESC Working Group on Coronary Pathophysiology and Microcirculation position paper on 'coronary microvascular dysfunction in cardiovascular disease'. <i>Cardiovascular Research</i> , 2020 , 116, 741-755	9.9	57
97	Xanthine oxidase-derived reactive oxygen species convert flow-induced arteriolar dilation to constriction in hyperhomocysteinemia: possible role of peroxynitrite. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 28-33	9.4	54
96	Gender difference in flow-induced dilation and regulation of shear stress: role of estrogen and nitric oxide. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 275, R1571-7	3.2	53
95	Adaptation of flow-induced dilation of arterioles to daily exercise. <i>Microvascular Research</i> , 1998 , 56, 54-61	7.7	52
94	Effect of estrogen on flow-induced dilation in NO deficiency: role of prostaglandins and EDHF. <i>Journal of Applied Physiology</i> , 2001 , 91, 2561-6	3.7	51
93	Flow-dependent dilation and myogenic constriction interact to establish the resistance of skeletal muscle arterioles. <i>Microcirculation</i> , 1995 , 2, 289-95	2.9	48
92	Aging Exacerbates Pressure-Induced Mitochondrial Oxidative Stress in Mouse Cerebral Arteries. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 1355-9	6.4	47
91	Myogenic responses of isolated lymphatics: modulation by endothelium. <i>Microcirculation</i> , 1997 , 4, 413-20	2.9	41
90	Shear stress-induced release of prostaglandin H(2) in arterioles of hypertensive rats. <i>Hypertension</i> , 2000 , 35, 925-30	8.5	41
89	Comparison of Early Versus Delayed Oral β Blockers in Acute Coronary Syndromes and Effect on Outcomes. <i>American Journal of Cardiology</i> , 2016 , 117, 760-7	3	40
88	Flow reduces the amplitude and increases the frequency of lymphatic vasomotion: role of endothelial prostanoids. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999 , 277, R1683-9	3.2	40
87	Endothelin and prostaglandin H2 enhance arteriolar myogenic tone in hypertension. <i>Hypertension</i> , 1997 , 30, 1210-5	8.5	38
86	Nitric oxide and H2O2 contribute to reactive dilation of isolated coronary arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H2461-7	5.2	37
85	Role of endothelial $[Ca^{2+}]_i$ in activation of eNOS in pressurized arterioles by agonists and wall shear stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H606-12	5.2	37
84	Aging impairs myogenic adaptation to pulsatile pressure in mouse cerebral arteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 527-30	7.3	36
83	Estrogen preserves regulation of shear stress by nitric oxide in arterioles of female hypertensive rats. <i>Hypertension</i> , 1998 , 31, 309-14	8.5	35

82	Serotonin reuptake inhibitor, fluoxetine, dilates isolated skeletal muscle arterioles. Possible role of altered Ca ²⁺ sensitivity. <i>British Journal of Pharmacology</i> , 1999 , 127, 740-6	8.6	35
81	Nitric oxide-mediated arteriolar dilation after endothelial deformation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H714-21	5.2	34
80	Development of nitric oxide and prostaglandin mediation of shear stress-induced arteriolar dilation with aging and hypertension. <i>Hypertension</i> , 1999 , 34, 1073-9	8.5	34
79	Traumatic Brain Injury Impairs Myogenic Constriction of Cerebral Arteries: Role of Mitochondria-Derived HO and TRPV4-Dependent Activation of BK Channels. <i>Journal of Neurotrauma</i> , 2018 , 35, 930-939	5.4	33
78	Flow-induced constriction in arterioles of hyperhomocysteinemic rats is due to impaired nitric oxide and enhanced thromboxane A(2) mediation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 233-7	9.4	32
77	Shear Stress Dependent Regulation of Vascular Resistance in Health and Disease: Role of Endothelium. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1996 , 4, 247-272		30
76	Reduced NO-dependent arteriolar dilation during the development of cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H461-8	5.2	30
75	Estrogen maintains nitric oxide synthesis in arterioles of female hypertensive rats. <i>Hypertension</i> , 1997 , 29, 1351-6	8.5	30
74	Unfractionated heparin-clopidogrel combination in ST-elevation myocardial infarction not receiving reperfusion therapy. <i>Atherosclerosis</i> , 2015 , 241, 151-6	3.1	28
73	Hyperosmolality dilates rat skeletal muscle arterioles: role of endothelial K(ATP) channels and daily exercise. <i>Journal of Applied Physiology</i> , 2000 , 89, 2227-34	3.7	27
72	Shear stress-induced dilation is attenuated in skeletal muscle arterioles of hypertensive rats. <i>Hypertension</i> , 1995 , 25, 758-63	8.5	26
71	Flow-induced responses in skeletal muscle venules: modulation by nitric oxide and prostaglandins. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H831-6	5.2	24
70	Enhanced NO-mediated dilations in skeletal muscle arterioles of chronically exercised rats. <i>Microvascular Research</i> , 2002 , 64, 491-6	3.7	21
69	Selected contribution: NO released to flow reduces myogenic tone of skeletal muscle arterioles by decreasing smooth muscle Ca(2+) sensitivity. <i>Journal of Applied Physiology</i> , 2001 , 91, 522-7; discussion 504-5	3.7	21
68	Single Mild Traumatic Brain Injury Induces Persistent Disruption of the Blood-Brain Barrier, Neuroinflammation and Cognitive Decline in Hypertensive Rats. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
67	Endothelial regulation of coronary microcirculation in health and cardiometabolic diseases. <i>Internal and Emergency Medicine</i> , 2013 , 8 Suppl 1, S51-4	3.7	16
66	Mediation of EDHF-Induced Reduction of Smooth Muscle [Ca ²⁺] _i and Arteriolar Dilation by K ⁺ Channels, 5,6-EET, and Gap Junctions. <i>Microcirculation</i> , 2001 , 8, 265-274	2.9	16
65	Association between comorbidities and absence of chest pain in acute coronary syndrome with in-hospital outcome. <i>International Journal of Cardiology</i> , 2016 , 217 Suppl, S37-43	3.2	16

64	Acute coronary syndrome in octogenarian patients: results from the international registry of acute coronary syndromes in transitional countries (ISACS-TC) registry. <i>European Heart Journal Supplements</i> , 2014 , 16, A87-A94	1.5	15
63	Association Between Nailfold Capillary Density and Pulmonary and Cardiac Involvement in Medium to Longstanding Juvenile Dermatomyositis. <i>Arthritis Care and Research</i> , 2019 , 71, 492-497	4.7	12
62	Hypertension Exacerbates Cerebrovascular Oxidative Stress Induced by Mild Traumatic Brain Injury: Protective Effects of the Mitochondria-Targeted Antioxidative Peptide SS-31. <i>Journal of Neurotrauma</i> , 2019 , 36, 3309-3315	5.4	12
61	Remodeling of Wall Mechanics and the Myogenic Mechanism of Rat Intramural Coronary Arterioles in Response to a Short-Term Daily Exercise Program: Role of Endothelial Factors. <i>Journal of Vascular Research</i> , 2018 , 55, 87-97	1.9	11
60	In juvenile dermatomyositis, heart rate variability is reduced, and associated with both cardiac dysfunction and markers of inflammation: a cross-sectional study median 13.5 years after symptom onset. <i>Rheumatology</i> , 2016 , 55, 535-43	3.9	10
59	Elevated Levels of Asymmetric Dimethylarginine (ADMA) in the Pericardial Fluid of Cardiac Patients Correlate with Cardiac Hypertrophy. <i>PLoS ONE</i> , 2015 , 10, e0135498	3.7	10
58	Pituitary adenylate cyclase-activating polypeptide ameliorates vascular dysfunction induced by hyperglycaemia. <i>Diabetes and Vascular Disease Research</i> , 2018 , 15, 277-285	3.3	9
57	Gender differences in case fatality rates of acute myocardial infarction in Serbia. <i>European Heart Journal Supplements</i> , 2014 , 16, A48-A55	1.5	9
56	L-Arginine-Nitric Oxide-Asymmetric Dimethylarginine Pathway and the Coronary Circulation: Translation of Basic Science Results to Clinical Practice. <i>Frontiers in Pharmacology</i> , 2020 , 11, 569914	5.6	9
55	Hypertension-Induced Enhanced Myogenic Constriction of Cerebral Arteries Is Preserved after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017 , 34, 2315-2319	5.4	7
54	Invasive versus conservative strategy in acute coronary syndromes: The paradox in women's outcomes. <i>International Journal of Cardiology</i> , 2016 , 222, 1110-1115	3.2	7
53	Pericardial fluid of cardiac patients elicits arterial constriction: role of endothelin-1. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015 , 93, 779-85	2.4	6
52	Extravascular Blood Augments Myogenic Constriction of Cerebral Arterioles: Implications for Hemorrhage-Induced Vasospasm. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	6
51	Perspectives: Microvascular endothelial dysfunction and gender. <i>European Heart Journal Supplements</i> , 2014 , 16, A16-A19	1.5	6
50	Prostaglandin E a postulated mediator of neurovascular coupling, at low concentrations dilates whereas at higher concentrations constricts human cerebral parenchymal arterioles. <i>Prostaglandins and Other Lipid Mediators</i> , 2020 , 146, 106389	3.7	6
49	Effects of Long-Term Moderate Intensity Exercise on Cognitive Behaviors and Cholinergic Forebrain in the Aging Rat. <i>Neuroscience</i> , 2019 , 411, 65-75	3.9	5
48	Unexplored potentials of epigenetic mechanisms of plants and animals-theoretical considerations. <i>Genetics & Epigenetics</i> , 2013 , 5, 23-41		5
47	Hemolyzed Blood Elicits a Calcium Antagonist and High CO Reversible Constriction via Elevation of [Ca] in Isolated Cerebral Arteries. <i>Journal of Neurotrauma</i> , 2017 , 34, 529-534	5.4	3

46	VPAC1 receptors play a dominant role in PACAP-induced vasorelaxation in female mice. <i>PLoS ONE</i> , 2019 , 14, e0211433	3.7	3
45	Assessment of coronary hemodynamics and vascular function. <i>Progress in Cardiovascular Diseases</i> , 2015 , 57, 423-30	8.5	3
44	The Beta-1-Receptor Blocker Nebivolol Elicits Dilation of Cerebral Arteries by Reducing Smooth Muscle [Ca ²⁺] _i . <i>PLoS ONE</i> , 2016 , 11, e0164010	3.7	3
43	Functional and structural adaptations of the coronary macro- and micro-vasculature to regular aerobic exercise by activation of physiological, cellular and molecular mechanisms: Esc Working Group on Coronary Pathophysiology & Microcirculation Position Paper. <i>Cardiovascular Research</i> , 2021 .	9.9	3
42	Hydrogen peroxide elicits constriction of skeletal muscle arterioles by activating the arachidonic acid pathway. <i>PLoS ONE</i> , 2014 , 9, e103858	3.7	2
41	Molecular Pathomechanisms of Impaired Flow-Induced Constriction of Cerebral Arteries Following Traumatic Brain Injury: A Potential Impact on Cerebral Autoregulation. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
40	Management of heart failure complicating acute coronary syndromes in Montenegro and Serbia. <i>European Heart Journal Supplements</i> , 2014 , 16, A61-A66	1.5	1
39	Increased role of prostaglandin H ₂ /thromboxane A ₂ (PGH ₂ /TXA ₂) in mediation of flow dependent responses of gracilis muscle venules in hyperhomocysteinemia (HHcy). <i>FASEB Journal</i> , 2007 , 21, A846	0.9	1
38	Angiotensin II type 1 receptor is involved in flow-induced vasomotor responses of isolated middle cerebral arteries: role of oxidative stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H1609-H1624	5.2	1
37	Platelet-derived extracellular vesicles may contribute to the hypercoagulable state in preeclampsia. <i>Journal of Reproductive Immunology</i> , 2021 , 148, 103380	4.2	1
36	Obesity in aging exacerbates blood brain barrier disruption, neuroinflammation and oxidative stress in the mouse hippocampus: effects on expression of genes involved in beta-amyloid generation and Alzheimer's disease (665.1). <i>FASEB Journal</i> , 2014 , 28, 665.1	0.9	0
35	The ESC Journal Family Ethics Committee 2012-2021.. <i>European Heart Journal</i> , 2022 , 43, 1280-1282	9.5	
34	High intraluminal pressure reduces tachyphylaxis to angiotensin II in isolated arterioles. <i>FASEB Journal</i> , 2006 , 20, A306	0.9	
33	Superoxide released to asymmetric dimethylarginine (ADMA) interferes with the vasomotor responses of isolated arterioles. <i>FASEB Journal</i> , 2006 , 20, A1149	0.9	
32	High intraluminal pressure via increased release of hydrogen peroxide maintains arteriolar responsiveness to angiotensin II. <i>FASEB Journal</i> , 2007 , 21, A1248	0.9	
31	Aldose reductase inhibition reduces endothelial dysfunction and oxidative stress in skeletal muscle arterioles exposed to hyperglycemia. <i>FASEB Journal</i> , 2007 , 21, A834	0.9	
30	Multiple effects of diabetes mellitus on the vasomotor responses of human coronary arterioles. <i>FASEB Journal</i> , 2007 , 21, A1226	0.9	
29	Increased soluble guanylate cyclase (sGC) activity may compensate for the high fat diet-induced reduction in NO bioavailability of rat coronary arterioles. <i>FASEB Journal</i> , 2007 , 21, A1226	0.9	

28	High Glucose Concentrations via Activating Rho-kinase Leads to Augmented and Sustained Angiotensin II-induced Arteriolar Constrictions. <i>FASEB Journal</i> , 2008 , 22, 732.11	0.9
27	Cardiac reactive hyperemia is impaired in a rat model of hyperhomocysteinemia (HHcy). <i>FASEB Journal</i> , 2008 , 22, 1152.6	0.9
26	Dilator NO, prostaglandins (PGs) and constrictor PGH ₂ /thromboxane A ₂ mediate flow-induced dilation of venules.. <i>FASEB Journal</i> , 2008 , 22, 1141.16	0.9
25	Asymmetric dimethylarginine (ADMA) elicits superoxide production in isolated arterioles via NAD(P)H oxidase. <i>FASEB Journal</i> , 2008 , 22, 1141.15	0.9
24	Regulation of Skeletal Muscle Microcirculation by Nitric Oxide 1999 , 278-296	
23	IGF-1 deficiency impairs cerebral myogenic autoregulation in hypertensive mice (1079.2). <i>FASEB Journal</i> , 2014 , 28, 1079.2	0.9
22	Aging exacerbates obesity-induced impairment of neurovascular coupling and cerebrovascular rarefaction: implications for the pathomechanism of vascular cognitive impairment (665.2). <i>FASEB Journal</i> , 2014 , 28, 665.2	0.9
21	Dysregulation of pressure-induced Ca ²⁺ signaling and myogenic constriction of cerebral arteries in aged hypertensive mice (1079.3). <i>FASEB Journal</i> , 2014 , 28, 1079.3	0.9
20	Flow-induced Constriction of Cerebral Arteries in Hypertension: a Protective Mechanism Against Stroke?. <i>FASEB Journal</i> , 2015 , 29, 832.5	0.9
19	In Vitro Model of Brain Trauma: in Isolated Basilar Artery Hemolysed Blood-induced Constriction is Inhibited by Calcium Channel Blocker and Increased CO ₂ . <i>FASEB Journal</i> , 2015 , 29, 832.8	0.9
18	Resveratrol Treatment Rescues Neurovascular Coupling in Aged Mice: Role of Improved Cerebrovascular Endothelial Function and Down-Regulation of NADPH Oxidase. <i>FASEB Journal</i> , 2015 , 29, 787.6	0.9
17	HPLC is more sensitive to assess urinary albumin than nephelometry in acute stroke patients. <i>FASEB Journal</i> , 2009 , 23, 613.10	0.9
16	Water extracts of cigarette smoke elicit smooth muscle dependent relaxation of rat renal arteries. <i>FASEB Journal</i> , 2009 , 23, 804.23	0.9
15	Inhibitors of aldose reductase and sorbitol dehydrogenase mitigate hyperglycemia-induced arteriolar dysfunction. <i>FASEB Journal</i> , 2009 , 23, 594.5	0.9
14	Correlation between acute stroke and microalbuminuria. Potential role of underlying systemic microvascular endothelial disease. <i>FASEB Journal</i> , 2009 , 23, 613.9	0.9
13	Augmented angiotensin II-induced arteriolar constrictions in mice with type 2 diabetes mellitus - role for cyclooxygenase-2. <i>FASEB Journal</i> , 2009 , 23, 594.1	0.9
12	Caveolae by interfering internalization of AT ₁ receptors regulate constrictions of isolated arterioles to Ang II. <i>FASEB Journal</i> , 2009 , 23, 767.1	0.9
11	Flow/shear stress-induced constriction of rat middle cerebral artery. <i>FASEB Journal</i> , 2010 , 24, 976.1	0.9

- 10 Role of endothelial surface layer in mediation of flow-induced dilation of isolated arterioles. *FASEB Journal*, **2010**, 24, 975.15 0.9
- 9 Aging-induced changes in angiotensin II-induced contractions and tachyphylaxis of isolated carotid arteries. *FASEB Journal*, **2010**, 24, 775.1 0.9
- 8 Liver-specific knockdown of IGF-1 decreases vascular oxidative stress resistance by impairing the Nrf2-dependent antioxidant response. *FASEB Journal*, **2011**, 25, 1093.6 0.9
- 7 HEMOLYSED BLOOD-INDUCED VASOMOTOR DYSFUNCTION IN ISOLATED RAT CEREBRAL ARTERIES. *FASEB Journal*, **2011**, 25, 1b435 0.9
- 6 In hypertension CYP450A metabolite 20-HETE exacerbates flow-induced arteriolar constriction and promotes cerebrovascular inflammation. *FASEB Journal*, **2012**, 26, 853.24 0.9
- 5 Small skeletal muscle veins exhibit substantial myogenic response, which is mediated by hydrogen peroxide-induced activation of TP receptors. *FASEB Journal*, **2012**, 26, 858.1 0.9
- 4 Perivascular blood induces substantial constrictions of isolated basilar artery, which can be reversed by high pCO₂. *FASEB Journal*, **2012**, 26, 707.3 0.9
- 3 Aging exacerbates hypertension-induced cerebromicrovascular injury in mice: role of autoregulatory dysfunction in the development of vascular cognitive impairment. *FASEB Journal*, **2013**, 27, 1186.4 0.9
- 2 In isolated vessels H₂S is a less effective scavenger of exogenous superoxide than SOD. *FASEB Journal*, **2013**, 27, 900.2 0.9
- 1 INCREASED PRODUCTION OF THE ARACHIDONIC ACID METABOLITE 20-HETE CONTRIBUTES TO HYPERTENSION-INDUCED CEREBROVASCULAR ALTERATIONS. *FASEB Journal*, **2013**, 27, 700.9 0.9