David Lominadze

List of Publications by Year
in descending order

87 papers	2,225 citations	201385 27 h-index	243296 44 g-index
87 all docs	87 docs citations	87 times ranked	2556 citing authors

#	ARTICLE	IF	CITATIONS
1	Lung ischemiaâ€“reperfusion injury: implications of oxidative stress and plateletâ€“arteriolar wall interactions. Archives of Physiology and Biochemistry, 2007, 113, 1-12.	1.0	115
2	Mechanisms of fibrinogenâ€induced microvascular dysfunction during cardiovascular disease. Acta Physiologica, 2010, 198, 1-13.	1.8	107
3	Homocysteine causes cerebrovascular leakage in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1206-H1213.	1.5	92
4	Hydrogen Sulfide Mitigates Cardiac Remodeling During Myocardial Infarction via Improvement of Angiogenesis. International Journal of Biological Sciences, 2012, 8, 430-441.	2.6	92
5	Involvement of fibrinogen specific binding in erythrocyte aggregation. FEBS Letters, 2002, 517, 41-44.	1.3	87
6	Fibrinogen induces endothelial cell permeability. Molecular and Cellular Biochemistry, 2007, 307, 13-22.	1.4	83
7	Mitochondrial mechanism of microvascular endothelial cells apoptosis in hyperhomocysteinemia. Journal of Cellular Biochemistry, 2006, 98, 1150-1162.	1.2	82
8	Hypothermia and Surgery. Annals of Surgery, 2009, 250, 134-140.	2.1	81
9	Balance of S1P₁and S1P₂signaling regulates peripheral microvascular permeability in rat cremaster muscle vasculature. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H33-H42.	1.5	75
10	Fibrinogen induces alterations of endothelial cell tight junction proteins. Journal of Cellular Physiology, 2009, 221, 195-203.	2.0	66
11	Ablation of matrix metalloproteinase-9 gene decreases cerebrovascular permeability and fibrinogen deposition post traumatic brain injury in mice. Metabolic Brain Disease, 2015, 30, 411-426.	1.4	61
12	Activation of GABAâ€A receptor ameliorates homocysteineâ€induced MMPâ€9 activation by ERK pathway. Journal of Cellular Physiology, 2009, 220, 257-266.	2.0	60
13	Autophagy mechanism of right ventricular remodeling in murine model of pulmonary artery constriction. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H688-H696.	1.5	52
14	3-Deazaadenosine mitigates arterial remodeling and hypertension in hyperhomocysteinemic mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L905-L911.	1.3	49
15	Fibrinogen-induced endothelin-1 production from endothelial cells. American Journal of Physiology - Cell Physiology, 2009, 296, C840-C847.	2.1	48
16	Homocysteine in Microvascular Endothelial Cell Barrier Permeability. Cell Biochemistry and Biophysics, 2005, 43, 037-044.	0.9	47
17	Remodeling of Retinal Architecture in Diabetic Retinopathy: Disruption of Ocular Physiology and Visual Functions by Inflammatory Gene Products and Pyroptosis. Frontiers in Physiology, 2018, 9, 1268.	1.3	45
18	Role of fibrinogen in cerebrovascular dysfunction after traumatic brain injury. Brain Injury, 2013, 27, 1508-1515.	0.6	44

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19	Ablation of <i>MMP9</i> Gene Ameliorates Paracellular Permeability and Fibrinogenâ€“Amyloid Beta Complex Formation during Hyperhomocysteinemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1472-1482.	2.4	44
20	A Dual-Tracer Method for Differentiating Transendothelial Transport from Paracellular Leakage in Vivo and in Vitro. Frontiers in Physiology, 2012, 3, 166.	1.3	36
21	INCREASED ABILITY OF ERYTHROCYTES TO AGGREGATE IN SPONTANEOUSLY HYPERTENSIVE RATS. Clinical and Experimental Hypertension, 2002, 24, 397-406.	0.5	33
22	Fibrinogen-Induced Increased Pial Venular Permeability in Mice. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 150-163.	2.4	33
23	High methionine, low folate and low vitamin B6/B12 (HM-LF-LV) diet causes neurodegeneration and subsequent short-term memory loss. Metabolic Brain Disease, 2018, 33, 1923-1934.	1.4	33
24	Proinflammatory effects of copper deficiency on neutrophils and lung endothelial cells. Immunology and Cell Biology, 2004, 82, 231-238.	1.0	32
25	Differential expression of Î³-aminobutyric acid receptor A (GABAA) and effects of homocysteine. Clinical Chemistry and Laboratory Medicine, 2007, 45, 1777-84.	1.4	32
26	Inhibition of inducible nitric oxide synthase attenuates platelet adhesion in subpleural arterioles caused by lung ischemia-reperfusion in rabbits. Journal of Applied Physiology, 2005, 99, 2423-2432.	1.2	31
27	Fibrinogen and fragment D-induced vascular constriction. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1257-H1264.	1.5	30
28	Fibrinogen alters mouse brain endothelial cell layer integrity affecting vascular endothelial cadherin. Biochemical and Biophysical Research Communications, 2011, 413, 509-514.	1.0	29
29	Î³-Aminbuturic Acid A Receptor Mitigates Homocysteine-Induced Endothelial Cell Permeability. Endothelium: Journal of Endothelial Cell Research, 2007, 14, 315-323.	1.7	28
30	Folic acid improves acetylcholineâ€induced vasoconstriction of coronary vessels isolated from hyperhomocysteinemic mice: An implication to coronary vasospasm. Journal of Cellular Physiology, 2011, 226, 2712-2720.	2.0	28
31	Matrix metalloproteinaseâ€9 in homocysteineâ€induced intestinal microvascular endothelial paracellular and transcellular permeability. Journal of Cellular Biochemistry, 2012, 113, 1159-1169.	1.2	28
32	Hyperhomocysteinemia inhibits satellite cell regenerative capacity through p38 alpha/beta MAPK signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H325-H334.	1.5	28
33	Red Blood Cell Behavior at Low Flow Rate in Microvessels. Microvascular Research, 1999, 58, 187-189.	1.1	27
34	Nitrotyrosinylation, remodeling and endothelialâ€myocyte uncoupling in iNOS, cystathionine beta synthase (CBS) knockouts and iNOS/CBS double knockout mice. Journal of Cellular Biochemistry, 2009, 106, 119-126.	1.2	26
35	GABAA receptor agonist mitigates homocysteine-induced cerebrovascular remodeling in knockout mice. Brain Research, 2008, 1221, 147-153.	1.1	25
36	Homocysteine alters cerebral microvascular integrity and causes remodeling by antagonizing GABA-A receptor. Molecular and Cellular Biochemistry, 2012, 371, 89-96.	1.4	25

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37	Effects of pulmonary ischemia-reperfusion on platelet adhesion in subpleural arterioles in rabbits. Microvascular Research, 2004, 67, 29-37.	1.1	24
38	Localization of Fibrinogen in the Vasculo-Astrocyte Interface after Cortical Contusion Injury in Mice. Brain Sciences, 2017, 7, 77.	1.1	24
39	Fibrinogen and Neuroinflammation During Traumatic Brain Injury. Molecular Neurobiology, 2020, 57, 4692-4703.	1.9	24
40	Folic acid mitigated cardiac dysfunction by normalizing the levels of tissue inhibitor of metalloproteinase and homocysteine-metabolizing enzymes postmyocardial infarction in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1484-H1493.	1.5	23
41	GABA Receptors Ameliorate Hcy-Mediated Integrin Shedding and Constrictive Collagen Remodeling in Microvascular Endothelial Cells. Cell Biochemistry and Biophysics, 2006, 45, 157-166.	0.9	22
42	In Vivo Platelet Thrombus Formation in Microvessels of Spontaneously Hypertensive Rats. American Journal of Hypertension, 1997, 10, 1140-1146.	1.0	21
43	Elevated Level of Fibrinogen Increases Caveolae Formation; Role of Matrix Metalloproteinase-9. Cell Biochemistry and Biophysics, 2014, 69, 283-294.	0.9	21
44	Homocysteine-dependent cardiac remodeling and endothelial-myocyte coupling in a 2 kidney, 1 clip Goldblatt hypertension mouse model. Canadian Journal of Physiology and Pharmacology, 2005, 83, 583-594.	0.7	19
45	Sphingolipids affect fibrinogen-induced caveolar transcytosis and cerebrovascular permeability. American Journal of Physiology - Cell Physiology, 2014, 307, C169-C179.	2.1	19
46	Arrhythmia and neuronal/endothelial myocyte uncoupling in hyperhomocysteinemia. Archives of Physiology and Biochemistry, 2006, 112, 219-227.	1.0	18
47	Cerebrovascular disorders caused by hyperfibrinogenaemia. Journal of Physiology, 2016, 594, 5941-5957.	1.3	17
48	BLOOD FLOW SHEAR RATES IN ARTERIOLES OF SPONTANEOUSLY HYPERTENSIVE RATS AT EARLY AND ESTABLISHED STAGES OF HYPERTENSION. Clinical and Experimental Hypertension, 2001, 23, 317-328.	0.5	15
49	Von Willebrand Factor Restores Impaired Platelet Thrombogenesis in Copper-Deficient Rats. Journal of Nutrition, 1997, 127, 1320-1327.	1.3	13
50	Hyperfibrinogenemia-mediated astrocyte activation. Brain Research, 2018, 1699, 158-165.	1.1	12
51	Impaired Deformability of Copper-Deficient Neutrophils. Experimental Biology and Medicine, 2005, 230, 543-548.	1.1	11
52	Cardiac Dys-Synchronization and Arrhythmia in Hyperhomocysteinemia. Current Neurovascular Research, 2007, 4, 289-294.	0.4	11
53	Fibrinogen-cellular prion protein complex formation on astrocytes. Journal of Neurophysiology, 2020, 124, 536-543.	0.9	10
54	Fibrinogen Interaction with Astrocyte ICAM-1 and PrPC Results in the Generation of ROS and Neuronal Death. International Journal of Molecular Sciences, 2021, 22, 2391.	1.8	10

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55	Platelet Thrombus Formation in Microvessels of Young Spontaneously Hypertensive Rats. Clinical and Experimental Hypertension, 1998, 20, 917-937.	0.5	9
56	In vitro platelet adhesion to endothelial cells at low shear rates during copper deficiency in rats. Journal of Trace Elements in Experimental Medicine, 1999, 12, 25-36.	0.8	9
57	Tissue-specific ICAM-1 expression and neutrophil transmigration in the copper-deficient rat. Inflammation, 2002, 26, 297-303.	1.7	9
58	Vascular and nonâ€vascular contributors to memory reduction during traumatic brain injury. European Journal of Neuroscience, 2019, 50, 2860-2876.	1.2	9
59	Effects of fibrinogen synthesis inhibition on vascular cognitive impairment during traumatic brain injury in mice. Brain Research, 2021, 1751, 147208.	1.1	7
60	The Effects of Fibrinogenâ€™s Interactions with Its Neuronal Receptors, Intercellular Adhesion Molecule-1 and Cellular Prion Protein. Biomolecules, 2021, 11, 1381.	1.8	7
61	Endothelial cell-derived nitric oxide mobilization is attenuated in copper-deficient rats. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1073-1078.	0.9	5
62	Homocysteine attenuates blood brain barrier function by inducing oxidative stress and the junctional proteins. FASEB Journal, 2008, 22, 734.7.	0.2	5
63	Fibrinogen, Fibrinogen-like 1 and Fibrinogen-like 2 Proteins, and Their Effects. Biomedicines, 2022, 10, 1712.	1.4	5
64	3-amino-4-(3-hexylphenylamino)-4-oxobutyl phosphonic acid (W146), a Selective Antagonist of Sphingosine-1-phospahte Receptor Subtype 1, Enhances AMD3100-stimulated Mobilization of Hematopoietic Stem Progenitor Cells in Animals. Journal of Biochemical and Pharmacological Research, 2013, 1, 197-203.	1.7	4
65	Role of Fibrinogen in Vascular Cognitive Impairment in Traumatic Brain Injury. , 2018, , .		2
66	An Elevated Fibrinogen Increases Matrix Metalloproteinases Activity in Cardiac Microvascular Endothelial Cells. FASEB Journal, 2009, 23, 592.10.	0.2	2
67	Activation of GABAÂ¬A receptor Protects Mitochondria and Reduces Cerebral ischemia.. FASEB Journal, 2009, 23, 614.8.	0.2	2
68	Differential Expression of the GABA _A receptor subunits in the Kidney and Cardiovascular system. FASEB Journal, 2007, 21, A497.	0.2	1
69	Epigenetic Silencing of Netrin is associated with Memory Loss by High Methionine, Low Folate and Vitamin B 6 /B 12 containing diet. FASEB Journal, 2015, 29, 996.6.	0.2	1
70	Fibrinogen activates IÎºBÎ± signaling in neurons via binding to its receptors, ICAMâ€1 and PrP ^C. FASEB Journal, 2021, 35, .	0.2	0
71	Mitochondrial Mechanism of Microvascular Endothelial Cell Apoptosis Induced by Homocysteine. FASEB Journal, 2006, 20, A1461.	0.2	0
72	HOMOCYSTEINEâ€INDUCED ENDOTHELIAL CELL PERMEABILITY, ROLE OF Î³â€AMINOBUTURIC ACID A (GABA A) RECEPTOR. FASEB Journal, 2007, 21, A489.	0.2	0

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73	Activation of GABA A receptor ameliorate homocysteineâ€induced MMPâ€9 by ERK pathway. FASEB Journal, 2007, 21, A497.	0.2	0
74	Mechanism of homocysteineâ€induced dementia/spasm. FASEB Journal, 2008, 22, 734.9.	0.2	0
75	Inhibition of inducible nitric oxide synthase attenuates platelet activation and fibrinogen/fibrin deposition in pulmonary microvessels caused by lung ischemiaâ€reperfusion in rabbits. FASEB Journal, 2008, 22, 1150.14.	0.2	0
76	Inducible nitric oxide synthase inhibition attenuates lung injury and decreases NADPH oxidase expression and activation during ischemiaâ€reperfusion in the ventilated rabbit lung. FASEB Journal, 2009, 23, 620.2.	0.2	0
77	Folic Acid Mitigated Cardiac Dysfunction by Normalizing the Levels of Tissue Inhibitor of Metalloproteinase and homocysteineâ€metabolizing enzymes Post myocardial Infarction in Mice.. FASEB Journal, 2010, 24, 600.5.	0.2	0
78	Hydrogen sulfide improves angiogenesis and regulates cardiac function and structure during myocardial infarction in mice. FASEB Journal, 2011, 25, .	0.2	0
79	The siRNA targeting MMPâ€9 mitigates Homocysteine induced dysruption of barrier integrity in Human intestinal microvascular cells. FASEB Journal, 2011, 25, 1066.7.	0.2	0
80	Matrix Metalloproteinaseâ€9 in Homocysteineâ€Induced Intestinal Microvascular Endothelial Paracellular and Transcellular Permeability. FASEB Journal, 2012, 26, 862.4.	0.2	0
81	NFkB signaling and inducible nitric oxide synthase activity during pulmonary ischemiaâ€reperfusion increase coâ€localization of fibrinogen/fibrin and platelets at sites of vascular leakage in rabbit lung. FASEB Journal, 2012, 26, 1130.14.	0.2	0
82	Increased formation of functional caveolae due to increased content of fibrinogen. FASEB Journal, 2012, 26, 862.3.	0.2	0
83	Role of Fibrinogen in Traumatic Brain Injury. FASEB Journal, 2013, 27, 1121.5.	0.2	0
84	Ablation of MMPâ€9 gene ameliorates paracellular permeability and fibrinogenâ€amyloid beta plaque formation during hyperhomocysteinemia. FASEB Journal, 2013, 27, 709.4.	0.2	0
85	Role of sphingolipids in fibrinogenâ€induced cerebrovascular permeability. FASEB Journal, 2013, 27, 1131.9.	0.2	0
86	Increased Cerebrovascular Protein Transcytosis and Amyloidâ€Î² Deposition during Hyperfibrinogenemia Alter Shortâ€term Memory. FASEB Journal, 2015, 29, 673.1.	0.2	0
87	Fibrinogen and/or Fibrin as a Cause of Neuroinflammation. Online Journal of Neurology and Brain Disorders, 2021, 5, .	0.4	0