Olga S Tarasova

List of Publications by Year
in descending order

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87	606	686830 13	794141 19
papers	citations	h-index	g-index

93	93	93	516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spaceflight on the Bion-M1 biosatellite alters cerebral artery vasomotor and mechanical properties in mice. Journal of Applied Physiology, 2015, 118, 830-838.	1.2	35
2	Trophic action of sympathetic nerves reduces arterial smooth muscle Ca²⁺sensitivity during early post-natal development in rats. Acta Physiologica, 2014, 212, 128-141.	1.8	31
3	Transmitter characteristics of cutaneous, renal and skeletal muscle small arteries in the rat. Acta Physiologica Scandinavica, 2003, 177, 157-166.	2.3	27
4	Functional remodelling of arterial endothelium during early postnatal development in rats. Cardiovascular Research, 2013, 99, 612-621.	1.8	27
5	Negative feedback regulation of vasocontraction by potassium channels in 10â€•to 15â€dayâ€old rats: Dominating role of K_v7 channels. Acta Physiologica, 2019, 225, e13176.	1.8	27
6	Endothelial nitric oxide weakens arterial contractile responses and reduces blood pressure during early postnatal development in rats. Nitric Oxide - Biology and Chemistry, 2016, 55-56, 1-9.	1.2	24
7	Higher Ca²⁺â€sensitivity of arterial contraction in 1â€weekâ€old rats is due to a greater Rhoâ€kinase activity. Acta Physiologica, 2018, 223, e13044.	1.8	24
8	Pannexin 1 facilitates arterial relaxation via an endotheliumâ€derived hyperpolarization mechanism. FEBS Letters, 2015, 589, 1164-1170.	1.3	22
9	TASKâ€1 channel blockade by AVE1231 increases vasocontractile responses and BP in 1â€•to 2â€weekâ€old but not adult rats. British Journal of Pharmacology, 2020, 177, 5148-5162.	2.7	22
10	Myogenic response of rat femoral small arteries in relation to wall structure and [Ca2+]i. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H118-H125.	1.5	19
11	Injected nanoparticles: The combination of experimental systems to assess cardiovascular adverse effects. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 64-72.	2.0	17
12	Changes in Endothelial Nitric Oxide Production in Systemic Vessels during Early Ontogenesisâ€”A Key Mechanism for the Perinatal Adaptation of the Circulatory System. International Journal of Molecular Sciences, 2019, 20, 1421.	1.8	16
13	Pannexins Are Potential New Players in the Regulation of Cerebral Homeostasis during Sleep-Wake Cycle. Frontiers in Cellular Neuroscience, 2017, 11, 210.	1.8	15
14	Endothelial function is impaired in conduit arteries of pannexin1 knockout mice. Biology Direct, 2014, 9, 8.	1.9	14
15	Phase Coupling Between Baroreflex Oscillations of Blood Pressure and Heart Rate Changes in 21-Day Dry Immersion. Frontiers in Physiology, 2020, 11, 455.	1.3	14
16	Effect of tail suspension on haemodynamics in intact and sympathectomized rats. European Journal of Applied Physiology, 2001, 85, 397-404.	1.2	13
17	NO-mediated anticontractile effect of the endothelium is abolished in coronary arteries of adult rats with antenatal/early postnatal hypothyroidism. Nitric Oxide - Biology and Chemistry, 2017, 63, 21-28.	1.2	13
18	Frequency characteristics of blood pressure oscillations evoked by sympathetic transmitters, noradrenaline and adenosine triphosphate. Journal of the Autonomic Nervous System, 1999, 77, 13-20.	1.9	12

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19	Nanocarriers and the delivered drug: Effect interference due to intravenous administration. European Journal of Pharmaceutical Sciences, 2014, 63, 96-102.	1.9	10
20	Voluntary exercise training restores anticontractile effect of NO in coronary arteries of adult rats with antenatal/early postnatal hypothyroidism. Nitric Oxide - Biology and Chemistry, 2018, 74, 10-18.	1.2	10
21	Effect of noradrenaline on tail arteries of SHR and WKY under perfusion at constant flow and constant pressure. Acta Physiologica Scandinavica, 1997, 161, 41-46.	2.3	9
22	Phase Resetting of Arterial Vasomotion by Burst Stimulation of Perivascular Nerves. Journal of Vascular Research, 2005, 42, 165-173.	0.6	9
23	Optimization of training: New developments in safe strength training. Human Physiology, 2013, 39, 511-523.	0.1	9
24	Alteration of mRNA and microRNA expression profiles in rat muscular type vasculature in early postnatal development. Scientific Reports, 2015, 5, 11106.	1.6	9
25	Endogenous oestrogens do not regulate endothelial nitric oxide production in early postnatal rats. European Journal of Pharmacology, 2015, 765, 598-605.	1.7	9
26	Antenatal/early postnatal hypothyroidism alters arterial tone regulation in 2-week-old rats. Journal of Endocrinology, 2017, 235, 137-151.	1.2	9
27	The role of purinergic neurotransmission in various cardiovascular reflexes. Acta Physiologica Scandinavica, 1992, 146, 441-448.	2.3	8
28	[Ca²⁺] changes in sympathetic varicosities and Schwann cells in rat mesenteric arteriesâ€"Relation to noradrenaline release and contraction. Acta Physiologica, 2019, 226, e13279.	1.8	8
29	Remodeling of Arterial Tone Regulation in Postnatal Development: Focus on Smooth Muscle Cell Potassium Channels. International Journal of Molecular Sciences, 2021, 22, 5413.	1.8	8
30	Antenatal/early postnatal hypothyroidism increases the contribution of Rho-kinase to contractile responses of mesenteric and skeletal muscle arteries in adult rats. Pediatric Research, 2018, 84, 112-117.	1.1	7
31	Vasoconstrictor reactions in spontaneously hypertensive rats versus Wistar Kyoto can be increased or decreased depending on the conditions of perfusion. Acta Physiologica Scandinavica, 1992, 146, 185-196.	2.3	6
32	Responses to noradrenaline of tail arteries in hypertensive, hypotensive and normotensive rats under different regimens of perfusion: role of the myogenic response. Acta Physiologica Scandinavica, 1998, 163, 331-337.	2.3	6
33	The role of purinergic and adrenergic transmitters of the sympathetic system in the control of arterial blood pressure variability. Journal of the Autonomic Nervous System, 1998, 70, 66-70.	1.9	6
34	A comparative analysis of the vasomotor responses and innervation of small arteries in rat locomotor and respiratory muscles. Biophysics (Russian Federation), 2008, 53, 621-625.	0.2	6
35	Changes of rat respiratory and locomotory muscles during aerobic exercise training in continuous and interval regimens. Biophysics (Russian Federation), 2012, 57, 684-689.	0.2	6
36	The effect of aerobic exercise on the expression of genes in skeletal muscles of trained and untrained men. Human Physiology, 2013, 39, 190-195.	0.1	6

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37	Phase synchronization of baroreflex oscillations of blood pressure and pulse interval in rats: the effects of cardiac autonomic blockade and gradual blood loss. Physiological Measurement, 2019, 40, 054003.	1.2	6
38	Disorders of Synchronization of Blood Pressure and Heart Rate Precede the Development of Vasovagal Syncope during Orthostasis. Human Physiology, 2019, 45, 405-411.	0.1	6
39	RHO-KINASE AS A KEY PARTICIPANT IN THE REGULATION OF VASCULAR TONE IN NORMAL CIRCULATION AND VASCULAR DISORDERS. Arterial Hypertension (Russian Federation), 2017, 23, 383-394.	0.1	6
40	Low-Frequency Blood Pressure Oscillations in Mesenteric Vessels in Conscious Rats. Journal of Vascular Research, 1999, 36, 528-531.	0.6	5
41	Orthostatic Response in Rats After Hindlimb Unloading: Effect of Transcranial Electrical Stimulation. Aviation, Space, and Environmental Medicine, 2007, 78, 1023-1028.	0.6	5
42	The pattern of changes in physiological parameters in the course of changes in physical exercise intensity. Human Physiology, 2013, 39, 171-177.	0.1	5
43	Adaptation to periodic high-altitude hypoxia inhibits baroreflex vagal bradycardia in rats. Bulletin of Experimental Biology and Medicine, 2000, 129, 327-329.	0.3	4
44	Ergoreflex: The essence and mechanisms. Human Physiology, 2012, 38, 665-674.	0.1	4
45	Intrauterine Nitric Oxide Deficiency Weakens Differentiation of Vascular Smooth Muscle in Newborn Rats. International Journal of Molecular Sciences, 2021, 22, 8003.	1.8	4
46	TWIK-Related Acid-Sensitive Potassium Channels (TASK-1) Emerge as Contributors to Tone Regulation in Renal Arteries at Alkaline pH. Frontiers in Physiology, 2022, 13, .	1.3	4
47	The Effects of Acidosis on eNOS in the Systemic Vasculature: A Focus on Early Postnatal Ontogenesis. International Journal of Molecular Sciences, 2022, 23, 5987.	1.8	4
48	Effects of Chronic Hypotension on the Adrenergic Nervous Plexus of the Saphenous Artery in Rats and Its Regeneration after Femoral Nerve Injury. Neuroscience and Behavioral Physiology, 2009, 39, 757-761.	0.2	3
49	Strategies of adaptation of small arteries in diaphragm and gastrocnemius muscle to aerobic exercise training. Human Physiology, 2017, 43, 437-445.	0.1	3
50	Trophic sympathetic influence weakens pro-contractile role of Clâ^' channels in rat arteries during postnatal maturation. Scientific Reports, 2020, 10, 20002.	1.6	3
51	Simulated Microgravity Induces Regionally Distinct Neurovascular and Structural Remodeling of Skeletal Muscle and Cutaneous Arteries in the Rat. Frontiers in Physiology, 2020, 11, 675.	1.3	3
52	Pannexin 1 Transgenic Mice: Human Diseases and Sleep-Wake Function Revision. International Journal of Molecular Sciences, 2021, 22, 5269.	1.8	3
53	The contribution of protein kinase C and rho-kinase to the regulation of receptor-dependent contraction of arteries decreases with age independently of sympathetic innervation. Biophysics (Russian Federation), 2008, 53, 626-631.	0.2	2
54	Proâ€contractile role of chloride in arterial smooth muscle: Postnatal decline potentially governed by sympathetic nerves. Experimental Physiology, 2019, 104, 1018-1022.	0.9	2

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55	MAPKs Are Highly Abundant but Do Not Contribute to Î±1-Adrenergic Contraction of Rat Saphenous Arteries in the Early Postnatal Period. International Journal of Molecular Sciences, 2021, 22, 6037.	1.8	2
56	Intrauterineï»¿ growth restriction weakens anticontractile influence of NO in coronary arteries of adult rats. Scientific Reports, 2021, 11, 14475.	1.6	2
57	Thyroxine Induces Acute Relaxation of Rat Skeletal Muscle Arteries via Integrin Î±vÎ²3, ERK1/2 and Integrin-Linked Kinase. Frontiers in Physiology, 2021, 12, 726354.	1.3	2
58	The Role of Reactive Oxygen Species in the Tone Regulation of Respiratory and Locomotor Muscle Arteries of the Rat. Moscow University Biological Sciences Bulletin, 2021, 76, 111-117.	0.1	2
59	Effect of Aerobic Training on Innervation Density and Neurogenic Responses of Skin Afferent Blood Vessels. Bulletin of Experimental Biology and Medicine, 2009, 148, 5-8.	0.3	1
60	Diaphragm muscle and its feed artery after chronic respiratory airway obstruction in rats. Biophysics (Russian Federation), 2010, 55, 826-830.	0.2	1
61	Reply to Zhang. Journal of Applied Physiology, 2015, 119, 1244-1244.	1.2	1
62	The role of inwardly rectifying potassium channels in the relaxation of rat hind-limb arteries. Biophysics (Russian Federation), 2016, 61, 741-747.	0.2	1
63	Alterations of the Purinergic Regulation in Mesenteric Arteries of Pannexin-1-Knockout Mice. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2018, 12, 62-69.	0.3	1
64	Comparative Evaluation of Heart Rate Variability Based on the Data of ECG and Blood Pressure Measurements. Human Physiology, 2018, 44, 307-313.	0.1	1
65	Changes in the Expression of Genes Regulating Calcium Homeostasis in Rat Myocardium Induced by Voluntary Wheel Training: The Role of Thyroid Hormones. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2020, 14, 67-73.	0.3	1
66	DYNAMICS OF RATS' VOLUNTARY RUN CHARACTERISTICS FOLLOWING 8 WEEKS OF TRAINING. Aerospace and Environmental Medicine, 2017, 51, 66-73.	0.0	1
67	INFLUENCE OF SYNTHETIC ANALOG OF PLATELET ACTIVATION FACTOR 1-ALKYL-2-ALKYLCARBOMOILGLICERINE ON VASCULAR SMOOTH MUSCLE CELLS CONTRACTILE PROPERTIES. Arterial Hypertension (Russian) Tj ETQq1 1 0.784314 rgBT /Ove		
68	Increase in the constrictor effects of Rho-kinase in skeletal muscle and coronary arteries of rats with chronic hypothyroidism. Bulletin of Siberian Medicine, 2018, 17, 23-32.	0.1	1
69	Intrauterine L-NAME Exposure Weakens the Development of Sympathetic Innervation and Induces the Remodeling of Arterial Vessels in Two-Week-Old Rats. International Journal of Molecular Sciences, 2021, 22, 12327.	1.8	1
70	Region-specific effects of antenatal/early postnatal hypothyroidism on endothelial NO-pathway activity in systemic circulation. Current Research in Physiology, 2022, 5, 8-15.	0.8	1
71	Comparative analysis of effectiveness of synaptic influences on resistive vessels of spontaneously hypertensive and normotensive rats during constantflow, constant-pressure perfusion. Bulletin of Experimental Biology and Medicine, 1988, 106, 1666-1669.	0.3	0
72	Sympathetic neurons in the superior cervical ganglion are more numerous in SHR and Wistar-Kyoto rats than in wistar rats. Bulletin of Experimental Biology and Medicine, 1989, 108, 1651-1653.	0.3	0

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73	Effects of ten-day aerobic training on the energy potential and blood supply of skeletal muscle in rats. Bulletin of Experimental Biology and Medicine, 1994, 117, 32-35.	0.3	0
74	Impact of twelve-day combined exposure to hypobaric hypoxia and physical exercise on structural and metabolic characteristics of skeletal muscle in rats. Bulletin of Experimental Biology and Medicine, 1995, 119, 579-582.	0.3	0
75	Role of ATP as a sympathetic nervous system transmitter in the smoothing of rapid arterial pressure changes. Bulletin of Experimental Biology and Medicine, 1995, 120, 1083-1086.	0.3	0
76	Vasoconstriction reactions in tail artery in the rats with regional arterial hypotension. Bulletin of Experimental Biology and Medicine, 1999, 127, 7-9.	0.3	0
77	Wall thickness and constrictive responses of the caudal artery in rats with renovascular hypertension. Bulletin of Experimental Biology and Medicine, 2000, 130, 749-751.	0.3	0
78	Effect of transmural pressure on constrictor reactions of caudal artery in hypotensive and hypertensive rats. Bulletin of Experimental Biology and Medicine, 2003, 136, 30-33.	0.3	0
79	Effect of Stress on Variability of Systemic Hemodynamics in Rats of Various Genetic Strains. Bulletin of Experimental Biology and Medicine, 2003, 136, 235-238.	0.3	0
80	Effect of strength training on pressor reflex responses from receptors in exercising muscles. Human Physiology, 2013, 39, 729-734.	0.1	0
81	Reduction of baroreflex blood pressure oscillations in 12-month-old SHR: Central and peripheral mechanisms. , 2014, , .		0
82	Measures of Growth Processes and Myogenesis in Glycolytic and Oxidative Muscle Fibers in Rats after Indirect Electrical Stimulation. Neuroscience and Behavioral Physiology, 2017, 47, 352-358.	0.2	0
83	Estimation of Time Characteristics of Baroreflex Resetting During Orthostatic Stress. , 2020, , .		0
84	Nongenomic Thyroxineâ€Induced Relaxation of Rat Skeletal Muscle Arteries Is Mediated by Integrin Î±vÎ²3, Integrinâ€Linked Kinase, ERK1/2 and ROCK. FASEB Journal, 2021, 35, .	0.2	0
85	Possible mechanisms of diverse spaceflight effects on endothelial function in different vascular beds. Frontiers in Physiology, 0, 9, .	1.3	0
86	P.27 Mechanisms of NADPH Oxidase Participation in the Regulation of Diaphragm Artery Contractile Responses. Artery Research, 2020, 26, S50-S50.	0.3	0
87	P.34 Preeclampsia Leads to the Delayed Development of Sympathetic Control of the Cardiovascular System in the Offspring. Artery Research, 2020, 26, S57-S57.	0.3	0