Elena S Tomilovskaya

List of Publications by Citations

65 papers	972 citations	16 h-index	30 g-index
94 ext. papers	1,306 ext. citations	3.6 avg, IF	4.35 L-index

#	Paper	IF	Citations
65	Long-term dry immersion: review and prospects. *European Journal of Applied Physiology*, **2011**, 111, 1235-60	3.4	112
64	Russian system of countermeasures on board of the International Space Station (ISS): the first results. *Acta Astronautica*, **2004**, 55, 233-7	2.9	85
63	Dry Immersion as a Ground-Based Model of Microgravity Physiological Effects. *Frontiers in Physiology*, **2019**, 10, 284	4.6	74
62	Cortical reorganization in an astronaut's brain after long-duration spaceflight. *Brain Structure and Function*, **2016**, 221, 2873-6	4	66
61	The effect of spaceflight and microgravity on the human brain. *Journal of Neurology*, **2017**, 264, 18-22	5.5	66
60	Brain Tissue-Volume Changes in Cosmonauts. *New England Journal of Medicine*, **2018**, 379, 1678-1680	59.2	62
59	Brain ventricular volume changes induced by long-duration spaceflight. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 10531-10536	11.5	58
58	Effects of three days of dry immersion on muscle sympathetic nerve activity and arterial blood pressure in humans. *Journal of the Autonomic Nervous System*, **2000**, 79, 156-64		38
57	Russian Countermeasure Systems for Adverse Effects of Microgravity on Long-Duration ISS Flights. *Aerospace Medicine and Human Performance*, **2015**, 86, A24-A31	1.1	37
56	Evolution of Russian Microgravity Countermeasures. *Aerospace Medicine and Human Performance*, **2015**, 86, A32-A37	1.1	35
55	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. *Frontiers in Physiology*, **2019**, 10, 761	4.6	33
54	Integration of sensory, spinal, and volitional descending inputs in regulation of human locomotion. *Journal of Neurophysiology*, **2016**, 116, 98-105	3.2	30
53	Cellular Responses of Human Postural Muscle to Dry Immersion. *Frontiers in Physiology*, **2019**, 10, 187	4.6	26
52	Vestibular experiments in space. *Advances in Space Biology and Medicine*, **2005**, 10, 105-64		26
51	Spaceflight-induced neuroplasticity in humans as measured by MRI: what do we know so far?. *Npj Microgravity*, **2017**, 3, 2	5.3	25
50	Macro- and microstructural changes in cosmonauts' brains after long-duration spaceflight. *Science Advances*, **2020**, 6,	14.3	24
49	Cardiovascular System Under Simulated Weightlessness: Head-Down Bed Rest vs. Dry Immersion. *Frontiers in Physiology*, **2020**, 11, 395	4.6	10

48	Mechanical stimulation of the support zones of soles: The method of noninvasive activation of the stepping movement generators in humans. *Human Physiology*, **2013**, 39, 480-485	0.3	10
47	Body Fluid Changes, Cardiovascular Deconditioning and Metabolic Impairment Are Reversed 24 Hours after a 5-Day Dry Immersion. *Open Journal of Nephrology*, **2013**, 03, 13-24	0	9
46	Effects of mechanical stimulation of sole support zones on the H-reflex characteristics under conditions of support unloading. *Human Physiology*, **2015**, 41, 150-155	0.3	7
45	Phase Coupling Between Baroreflex Oscillations of Blood Pressure and Heart Rate Changes in 21-Day Dry Immersion. *Frontiers in Physiology*, **2020**, 11, 455	4.6	7
44	Effects of gravitational unloading on back muscles tone. *Human Physiology*, **2017**, 43, 291-300	0.3	7
43	Effects of long-term space flights on the organization of the horizontal gaze fixation reaction. *Human Physiology*, **2010**, 36, 708-715	0.3	7
42	Acute effects of Dry Immersion on kinematic characteristics of postural corrective responses. *Acta Astronautica*, **2016**, 121, 110-115	2.9	6
41	Effect of support deprivation on the order of motor unit recruitment. *Human Physiology*, **2015**, 41, 813-816	0.3	6
40	Effects of long-duration space flights on characteristics of the vertical gaze fixation reaction. *Journal of Vestibular Research: Equilibrium and Orientation*, **2013**, 23, 3-12	2.5	6
39	Certain approaches to the development of on-board automated training system. *Acta Astronautica*, **1998**, 43, 291-311	2.9	6
38	Resting State Brain Activity During Long-Term Dry Immersion. *Aerospace Medicine and Human Performance*, **2018**, 89, 642-647	1.1	5
37	Effects of long-duration space flight on target acquisition. *Acta Astronautica*, **2011**, 68, 1454-1461	2.9	5
36	Efficacy of Gradient Compression Garments in the Hours After Long-Duration Spaceflight. *Frontiers in Physiology*, **2020**, 11, 784	4.6	5
35	Sharp Changes in Muscle Tone in Humans Under Simulated Microgravity. *Frontiers in Physiology*, **2021**, 12, 661922	4.6	5
34	Comparison of the Efficacy of Neuromuscular Electrostimulation and Interval Exercise Training in Early Rehabilitation of Patients Hospitalized with Decompensation of Chronic Heart Failure. *Human Physiology*, **2018**, 44, 663-672	0.3	5
33	Bioinformatic Study of Transcriptome Changes in the Mice Lumbar Spinal Cord After the 30-Day Spaceflight and Subsequent 7-Day Readaptation on Earth: New Insights Into Molecular Mechanisms of the Hypogravity Motor Syndrome. *Frontiers in Pharmacology*, **2019**, 10, 747	5.6	4
32	Effects of Five-Day Dry Immersion on the Strength of the Ponzo and the Müller-Lyer Illusions. *Neuroscience and Behavioral Physiology*, **2019**, 49, 847-856	0.3	4
31	Foot-ground reaction force during long-term space flight and after it: walking in active treadmill mode. *Gait and Posture*, **2020**, 76, 382-388	2.6	4

30	The First Female Dry Immersion (NAIAD-2020): Design and Specifics of a 3-Day Study. *Frontiers in Physiology*, **2021**, 12, 661959	4.6	4
29	The Neurophysiological Correlates of Real and Imaginary Locomotion. *Human Physiology*, **2019**, 45, 104-114	0.3	3
28	Comparative Study of the Lower Limb Muscle Tone under the Conditions of Five-day Support Unloading Coupled with Different Regimens of Electromyostimulation. *Human Physiology*, **2020**, 46, 391-400	0.3	3
27	Reply to Wostyn et al.: Investigating the spaceflight-associated neuro-ocular syndrome and the human brain in lockstep. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15772-15773	11.5	3
26	The Effect of a 21-Day Dry Immersion on Ponzo and Müller–Lyer Illusions. *Human Physiology*, **2021**, 47, 51-59	0.3	3
25	Effects of Various Muscle Disuse States and Countermeasures on Muscle Molecular Signaling.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	3
24	Functional activity of the liver under the conditions of immersion and effects of countermeasures. *Human Physiology*, **2016**, 42, 740-746	0.3	2
23	Experiment with five-day dry immersion: Objectives, content, structure of the investigations, and specific methods. *Human Physiology*, **2013**, 39, 756-761	0.3	2
22	The effects of simulated microgravity on characteristics of slow presaccadic potentials. *Human Physiology*, **2006**, 32, 131-139	0.3	2
21	JOINT RUSSIAN-USA FIELD TEST: IMPLICATIONS FOR DECONDITIONED CREW FOLLOWING LONG DURATION SPACEFLIGHT. *Aerospace and Environmental Medicine*, **2020**, 54, 94-100	1.6	2
20	EFFECT OF 21-DAY DRY IMMERSION ON THE SENSORIMOTOR EVALUATION OF THE PONZO AND MULLER-LYER ILLUSIONS DURING GRASPING. *Aerospace and Environmental Medicine*, **2020**, 54, 58-63	1.6	2
19	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight.. *Frontiers in Neural Circuits*, **2022**, 16, 815838	3.5	2
18	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2120439119	11.5	2
17	Morphofunctional Studies of the Involvement of the Serotoninergic System in the Control of Postural and Locomotor Functions. *Neuroscience and Behavioral Physiology*, **2014**, 44, 967-972	0.3	1
16	NAIAD-2020: Characteristics of Motor Evoked Potentials After 3-Day Exposure to Dry Immersion in Women.. *Frontiers in Human Neuroscience*, **2021**, 15, 753259	3.3	1
15	[illegible] *Zhurnal Vysshei Nervnoi Deyatelnosti Imeni I P Pavlova*, **2018**, 313-326	1	1
14	Real-world experience of feasibility and efficacy of electrical muscle stimulation in elderly patients with acute heart failure: A randomized controlled study. *International Journal of Cardiology*, **2021**, 344, 113-119	3.2	1
13	Effect of Five-day Dry Immersion on Eye Hydrodynamics. *Human Physiology*, **2020**, 46, 792-797	0.3	1

List of Publications

12	Specific Features of the Motor Potentials of the Leg Muscles Induced by Magnetic Stimulation under the Conditions of a Five-Day Dry Immersion in Healthy Volunteers. *Human Physiology*, **2021**, 47, 282-288	0.3	1
11	Dynamics of Body Composition Indices and Biochemical Parameters in Participants of Countermeasure-Free 21-Day Dry Immersion. *Human Physiology*, **2021**, 47, 296-305	0.3	1
10	Effects of plantar stimulation on cardiovascular response to orthostatism. *European Journal of Applied Physiology*, **2016**, 116, 2257-2266	3.4	1
9	Effect of Dry Immersion on Visual Illusions. *Advances in Intelligent Systems and Computing*, **2021**, 128-133	0.4	1
8	Sensitivity of Visual System in 5-Day "Dry" Immersion With High-Frequency Electromyostimulation.. *Frontiers in Neural Circuits*, **2021**, 15, 702792	3.5	1
7	Sleep in 21-Day Dry Immersion. Are Cardiovascular Adjustments Rapid Eye Movement Sleep-Dependent?. *Frontiers in Physiology*, **2021**, 12, 749773	4.6	0
6	Effect of 5-day dry immersion on the human foot morphology evaluated by computer plantography and soft tissues stiffness measuring. *Scientific Reports*, **2021**, 11, 6232	4.9	0
5	The Use of Space Electrical Myostimulation in Clinical Cardiology on Earth. *Human Physiology*, **2021**, 47, 382-390	0.3	0
4	Adaptation in Gait to Lunar and Martian Gravity Unloading During Long-Term Isolation in the Ground-Based Space Station Model.. *Frontiers in Human Neuroscience*, **2021**, 15, 742664	3.3	0
3	Reply to Ludwig et al.: A potential mechanism for intracranial cerebrospinal fluid accumulation during long-duration spaceflight. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 20265-20266	11.5	
2	Sarcolab-3: Changes In Knee Flexor And Extensor Torque Generation During A Six-month Space Flight Mission. *Medicine and Science in Sports and Exercise*, **2019**, 51, 407-407	1.2	
1	Characteristics of blood proteome changes in hemorrhagic syndrome after head-up tilt test during 21-day Dry Immersion. *Acta Astronautica*, **2021**, 189, 158-165	2.9	