

Elena S Tomilovskaya

List of Publications by Year in Descending Order

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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.

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	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight.. <i>Frontiers in Neural Circuits</i> , 2022 , 16, 815838	3.5	2
64	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2120439119	11.5	2
63	NAIAD-2020: Characteristics of Motor Evoked Potentials After 3-Day Exposure to Dry Immersion in Women.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 753259	3.3	1
62	Sleep in 21-Day Dry Immersion. Are Cardiovascular Adjustments Rapid Eye Movement Sleep-Dependent?. <i>Frontiers in Physiology</i> , 2021 , 12, 749773	4.6	0
61	Real-world experience of feasibility and efficacy of electrical muscle stimulation in elderly patients with acute heart failure: A randomized controlled study. <i>International Journal of Cardiology</i> , 2021 , 344, 113-119	3.2	1
60	Effect of 5-day dry immersion on the human foot morphology evaluated by computer plantography and soft tissues stiffness measuring. <i>Scientific Reports</i> , 2021 , 11, 6232	4.9	0
59	Specific Features of the Motor Potentials of the Leg Muscles Induced by Magnetic Stimulation under the Conditions of a Five-Day DryImmersion in Healthy Volunteers. <i>Human Physiology</i> , 2021 , 47, 282-288	0.3	1
58	Sharp Changes in Muscle Tone in Humans Under Simulated Microgravity. <i>Frontiers in Physiology</i> , 2021 , 12, 661922	4.6	5
57	Dynamics of Body Composition Indices and Biochemical Parameters in Participants of Countermeasure-Free 21-Day DryImmersion. <i>Human Physiology</i> , 2021 , 47, 296-305	0.3	1
56	The First Female Dry Immersion (NAIAD-2020): Design and Specifics of a 3-Day Study. <i>Frontiers in Physiology</i> , 2021 , 12, 661959	4.6	4
55	Effect of DryImmersion on Visual Illusions. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 128-133.	0.4	1
54	The Effect of a 21-Day Dry Immersion on Ponzo and Müller-Lyer Illusions. <i>Human Physiology</i> , 2021 , 47, 51-59	0.3	3
53	The Use of SpaceElectrical Myostimulation in Clinical Cardiology on Earth. <i>Human Physiology</i> , 2021 , 47, 382-390	0.3	0
52	Characteristics of blood proteome changes in hemorrhagic syndrome after head-up tilt test during 21-day Dry Immersion. <i>Acta Astronautica</i> , 2021 , 189, 158-165	2.9	
51	Adaptation in Gait to Lunar and Martian Gravity Unloading During Long-Term Isolation in the Ground-Based Space Station Model.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 742664	3.3	0
50	Sensitivity of Visual System in 5-Day "Dry" Immersion With High-Frequency Electromyostimulation.. <i>Frontiers in Neural Circuits</i> , 2021 , 15, 702792	3.5	1
49	Effects of Various Muscle Disuse States and Countermeasures on Muscle Molecular Signaling.. <i>International Journal of Molecular Sciences</i> , 2021 , 23,	6.3	3

48	Phase Coupling Between Baroreflex Oscillations of Blood Pressure and Heart Rate Changes in 21-Day Dry Immersion. <i>Frontiers in Physiology</i> , 2020 , 11, 455	4.6	7
47	Cardiovascular System Under Simulated Weightlessness: Head-Down Bed Rest vs. Dry Immersion. <i>Frontiers in Physiology</i> , 2020 , 11, 395	4.6	10
46	JOINT RUSSIAN-USA FIELD TEST: IMPLICATIONS FOR DECONDITIONED CREW FOLLOWING LONG DURATION SPACEFLIGHT. <i>Aerospace and Environmental Medicine</i> , 2020 , 54, 94-100	1.6	2
45	EFFECT OF 21-DAY DRY IMMERSION ON THE SENSORIMOTOR EVALUATION OF THE PONZO AND MULLER-LYER ILLUSIONS DURING GRASPING. <i>Aerospace and Environmental Medicine</i> , 2020 , 54, 58-63	1.6	2
44	Effect of Five-day Dry Immersion on Eye Hydrodynamics. <i>Human Physiology</i> , 2020 , 46, 792-797	0.3	1
43	Foot-ground reaction force during long-term space flight and after it: walking in active treadmill mode. <i>Gait and Posture</i> , 2020 , 76, 382-388	2.6	4
42	Efficacy of Gradient Compression Garments in the Hours After Long-Duration Spaceflight. <i>Frontiers in Physiology</i> , 2020 , 11, 784	4.6	5
41	Macro- and microstructural changes in cosmonauts' brains after long-duration spaceflight. <i>Science Advances</i> , 2020 , 6,	14.3	24
40	Comparative Study of the Lower Limb Muscle Tone under the Conditions of Five-day Support Unloading Coupled with Different Regimens of Electromyostimulation. <i>Human Physiology</i> , 2020 , 46, 391-400	0.3	3
39	Reply to Ludwig et al.: A potential mechanism for intracranial cerebrospinal fluid accumulation during long-duration spaceflight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20265-20266	11.5	
38	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. <i>Frontiers in Pharmacology</i> , 2019 , 10, 747	5.6	4
37	The Neurophysiological Correlates of Real and Imaginary Locomotion. <i>Human Physiology</i> , 2019 , 45, 104-114	11.4	3
36	Brain ventricular volume changes induced by long-duration spaceflight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10531-10536	11.5	58
35	Dry Immersion as a Ground-Based Model of Microgravity Physiological Effects. <i>Frontiers in Physiology</i> , 2019 , 10, 284	4.6	74
34	Cellular Responses of Human Postural Muscle to Dry Immersion. <i>Frontiers in Physiology</i> , 2019 , 10, 187	4.6	26
33	Effects of Five-Day Dry Immersion on the Strength of the Ponzo and the Müller-Lyer Illusions. <i>Neuroscience and Behavioral Physiology</i> , 2019 , 49, 847-856	0.3	4
32	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. <i>Frontiers in Physiology</i> , 2019 , 10, 761	4.6	33
31	Sarcolab-3: Changes In Knee Flexor And Extensor Torque Generation During A Six-month Space Flight Mission. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 407-407	1.2	

30	Reply to Wostyn et al.: Investigating the spaceflight-associated neuro-ocular syndrome and the human brain in lockstep. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15772-15773	11.5	3
29	Resting State Brain Activity During Long-Term Dry Immersion. <i>Aerospace Medicine and Human Performance</i> , 2018 , 89, 642-647	1.1	5
28	В-ВВ ВВВВ. Zhurnal Vysshei Nervnoi Deyatel'nosti Imeni I P Pavlova, 2018 , 313-326	1	1
27	Comparison of the Efficacy of Neuromuscular Electrostimulation and Interval Exercise Training in Early Rehabilitation of Patients Hospitalized with Decompensation of Chronic Heart Failure. <i>Human Physiology</i> , 2018 , 44, 663-672	0.3	5
26	Brain Tissue-Volume Changes in Cosmonauts. <i>New England Journal of Medicine</i> , 2018 , 379, 1678-1680	59.2	62
25	The effect of spaceflight and microgravity on the human brain. <i>Journal of Neurology</i> , 2017 , 264, 18-22	5.5	66
24	Spaceflight-induced neuroplasticity in humans as measured by MRI: what do we know so far?. <i>Npj Microgravity</i> , 2017 , 3, 2	5.3	25
23	Effects of gravitational unloading on back muscles tone. <i>Human Physiology</i> , 2017 , 43, 291-300	0.3	7
22	Cortical reorganization in an astronaut's brain after long-duration spaceflight. <i>Brain Structure and Function</i> , 2016 , 221, 2873-6	4	66
21	Integration of sensory, spinal, and volitional descending inputs in regulation of human locomotion. <i>Journal of Neurophysiology</i> , 2016 , 116, 98-105	3.2	30
20	Functional activity of the liver under the conditions of immersion and effects of countermeasures. <i>Human Physiology</i> , 2016 , 42, 740-746	0.3	2
19	Acute effects of Dry Immersion on kinematic characteristics of postural corrective responses. <i>Acta Astronautica</i> , 2016 , 121, 110-115	2.9	6
18	Effects of plantar stimulation on cardiovascular response to orthostatism. <i>European Journal of Applied Physiology</i> , 2016 , 116, 2257-2266	3.4	1
17	Effects of mechanical stimulation of sole support zones on the H-reflex characteristics under conditions of support unloading. <i>Human Physiology</i> , 2015 , 41, 150-155	0.3	7
16	Effect of support deprivation on the order of motor unit recruitment. <i>Human Physiology</i> , 2015 , 41, 813-816	1.6	6
15	Russian Countermeasure Systems for Adverse Effects of Microgravity on Long-Duration ISS Flights. <i>Aerospace Medicine and Human Performance</i> , 2015 , 86, A24-A31	1.1	37
14	Evolution of Russian Microgravity Countermeasures. <i>Aerospace Medicine and Human Performance</i> , 2015 , 86, A32-A37	1.1	35
13	Morphofunctional Studies of the Involvement of the Serotonergic System in the Control of Postural and Locomotor Functions. <i>Neuroscience and Behavioral Physiology</i> , 2014 , 44, 967-972	0.3	1

12	Mechanical stimulation of the support zones of soles: The method of noninvasive activation of the stepping movement generators in humans. <i>Human Physiology</i> , 2013 , 39, 480-485	0.3	10
11	Experiment with five-day dry immersion: Objectives, content, structure of the investigations, and specific methods. <i>Human Physiology</i> , 2013 , 39, 756-761	0.3	2
10	Effects of long-duration space flights on characteristics of the vertical gaze fixation reaction. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2013 , 23, 3-12	2.5	6
9	Body Fluid Changes, Cardiovascular Deconditioning and Metabolic Impairment Are Reversed 24 Hours after a 5-Day Dry Immersion. <i>Open Journal of Nephrology</i> , 2013 , 03, 13-24	0	9
8	Long-term dry immersion: review and prospects. <i>European Journal of Applied Physiology</i> , 2011 , 111, 1235-1240	5.4	112
7	Effects of long-duration space flight on target acquisition. <i>Acta Astronautica</i> , 2011 , 68, 1454-1461	2.9	5
6	Effects of long-term space flights on the organization of the horizontal gaze fixation reaction. <i>Human Physiology</i> , 2010 , 36, 708-715	0.3	7
5	The effects of simulated microgravity on characteristics of slow presaccadic potentials. <i>Human Physiology</i> , 2006 , 32, 131-139	0.3	2
4	Vestibular experiments in space. <i>Advances in Space Biology and Medicine</i> , 2005 , 10, 105-64		26
3	Russian system of countermeasures on board of the International Space Station (ISS): the first results. <i>Acta Astronautica</i> , 2004 , 55, 233-7	2.9	85
2	Effects of three days of dry immersion on muscle sympathetic nerve activity and arterial blood pressure in humans. <i>Journal of the Autonomic Nervous System</i> , 2000 , 79, 156-64		38
1	Certain approaches to the development of on-board automated training system. <i>Acta Astronautica</i> , 1998 , 43, 291-311	2.9	6