

Stuart Lee

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.

86
papers

2,203
citations

30
h-index

45
g-index

106
ext. papers

2,790
ext. citations

3
avg, IF

4.61
L-index

#	Paper	IF	Citations
86	International standard measures during the VaPER bed rest study. <i>Acta Astronautica</i> , 2022 , 190, 208-217	2.9	0
85	Cardiac Effects of Repeated Weightlessness During Extreme Duration Swimming Compared With Spaceflight. <i>Circulation</i> , 2021 , 143, 1533-1535	16.7	3
84	Changes in the Optic Nerve Head and Choroid Over 1 Year of Spaceflight. <i>JAMA Ophthalmology</i> , 2021 , 139, 663-667	3.9	7
83	Mechanical countermeasures to headward fluid shifts. <i>Journal of Applied Physiology</i> , 2021 , 130, 1766-1777	3.7	6
82	Association of Structural Changes in the Brain and Retina After Long-Duration Spaceflight. <i>JAMA Ophthalmology</i> , 2021 , 139, 781-784	3.9	2
81	Bellagio II Report: Terrestrial Applications of Space Medicine Research. <i>Aerospace Medicine and Human Performance</i> , 2021 , 92, 650-669	1.1	0
80	Optic disc edema and chorioretinal folds develop during strict 6 μ head-down tilt bed rest with or without artificial gravity. <i>Physiological Reports</i> , 2021 , 9, e14977	2.6	4
79	Intraocular pressure and choroidal thickness respond differently to lower body negative pressure during spaceflight. <i>Journal of Applied Physiology</i> , 2021 , 131, 613-620	3.7	7
78	Lower body negative pressure reduces jugular and portal vein volumes and counteracts the elevation of middle cerebral vein velocity during long-duration spaceflight. <i>Journal of Applied Physiology</i> , 2021 , 131, 1080-1087	3.7	3
77	Cardiovascular Deconditioning and Exercise 2021 , 129-153		
76	Arterial structure and function during and after long-duration spaceflight. <i>Journal of Applied Physiology</i> , 2020 , 129, 108-123	3.7	14
75	Unchanged cerebrovascular CO reactivity and hypercapnic ventilatory response during strict head-down tilt bed rest in a mild hypercapnic environment. <i>Journal of Physiology</i> , 2020 , 598, 2491-2505	3.9	17
74	Association of Long-Duration Spaceflight With Anterior and Posterior Ocular Structure Changes in Astronauts and Their Recovery. <i>JAMA Ophthalmology</i> , 2020 , 138, 553-559	3.9	36
73	Reply to Greaves et al. <i>Journal of Applied Physiology</i> , 2020 , 129, 1113	3.7	
72	Cardiovascular Deconditioning and Exercise 2020 , 1-20		
71	Optic Disc Edema and Choroidal Engorgement in Astronauts During Spaceflight and Individuals Exposed to Bed Rest. <i>JAMA Ophthalmology</i> , 2020 , 138, 165-172	3.9	37
70	Multi-omic, Single-Cell, and Biochemical Profiles of Astronauts Guide Pharmacological Strategies for Returning to Gravity. <i>Cell Reports</i> , 2020 , 33, 108429	10.6	14

69	Vestibular and Cardiovascular Responses After Long-Duration Spaceflight. <i>Aerospace Medicine and Human Performance</i> , 2020 , 91, 621-627	1.1	4
68	Efficacy of Gradient Compression Garments in the Hours After Long-Duration Spaceflight. <i>Frontiers in Physiology</i> , 2020 , 11, 784	4.6	5
67	Venous and Arterial Responses to Partial Gravity. <i>Frontiers in Physiology</i> , 2020 , 11, 863	4.6	4
66	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , 2019 , 364,	33.3	300
65	Association of Genetics and B Vitamin Status With the Magnitude of Optic Disc Edema During 30-Day Strict Head-Down Tilt Bed Rest. <i>JAMA Ophthalmology</i> , 2019 , 137, 1195-1200	3.9	19
64	Encyclopedia of Bioastronautics 2019 , 1-19		3
63	Physical Performance, Countermeasures, and Postflight Reconditioning 2019 , 609-658		2
62	Assessment of Jugular Venous Blood Flow Stasis and Thrombosis During Spaceflight. <i>JAMA Network Open</i> , 2019 , 2, e1915011	10.4	70
61	Optic Disc Edema after 30 Days of Strict Head-down Tilt Bed Rest. <i>Ophthalmology</i> , 2019 , 126, 467-468	7.3	48
60	Physiological and Functional Alterations after Spaceflight and Bed Rest. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 1961-1980	1.2	57
59	Reliability of the Portable Metabolic Gas Analysis System used on the International Space Station. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 338	1.2	
58	Thigh Cuffs as a Countermeasure for Ocular Changes in Simulated Weightlessness. <i>Ophthalmology</i> , 2018 , 125, 459-460	7.3	18
57	Fluid Shifts and Cardiovascular-Related Factors That May Contribute to the VIIP Syndrome in Astronauts 2017 , 39-68		1
56	Effects of short-term mild hypercapnia during head-down tilt on intracranial pressure and ocular structures in healthy human subjects. <i>Physiological Reports</i> , 2017 , 5, e13302	2.6	37
55	Submaximal Exercise Responses Before and During Long Duration Space Flight. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 290	1.2	
54	Internal jugular pressure increases during parabolic flight. <i>Physiological Reports</i> , 2016 , 4, e13068	2.6	19
53	Treadmill exercise within lower body negative pressure protects leg lean tissue mass and extensor strength and endurance during bed rest. <i>Physiological Reports</i> , 2016 , 4, e12892	2.6	9
52	Treadmill exercise within lower-body negative pressure attenuates simulated spaceflight-induced reductions of balance abilities in men but not women. <i>Npj Microgravity</i> , 2016 , 2, 16022	5.3	10

51	WISE 2005: Aerobic and resistive countermeasures prevent paraspinal muscle deconditioning during 60-day bed rest in women. <i>Journal of Applied Physiology</i> , 2016 , 120, 1215-22	3.7	21
50	Left ventricular remodeling during and after 60 days of sedentary head-down bed rest. <i>Journal of Applied Physiology</i> , 2016 , 120, 956-64	3.7	24
49	Orthostatic Intolerance After ISS and Space Shuttle Missions. <i>Aerospace Medicine and Human Performance</i> , 2015 , 86, A54-A67	1.1	49
48	Isokinetic Strength Changes Following Long-Duration Spaceflight on the ISS. <i>Aerospace Medicine and Human Performance</i> , 2015 , 86, A68-A77	1.1	42
47	Gradient compression garments protect against orthostatic intolerance during recovery from bed rest. <i>European Journal of Applied Physiology</i> , 2014 , 114, 597-608	3.4	12
46	Early-phase musculoskeletal adaptations to different levels of eccentric resistance after 8 weeks of lower body training. <i>European Journal of Applied Physiology</i> , 2014 , 114, 2263-80	3.4	36
45	WISE-2005: Countermeasures to prevent muscle deconditioning during bed rest in women. <i>Journal of Applied Physiology</i> , 2014 , 116, 654-67	3.7	35
44	Peak exercise oxygen uptake during and following long-duration spaceflight. <i>Journal of Applied Physiology</i> , 2014 , 117, 231-8	3.7	77
43	Spatial heterogeneity in the response of the proximal femur to two lower-body resistance exercise regimens. <i>Journal of Bone and Mineral Research</i> , 2014 , 29, 1337-45	6.3	26
42	Virtual Guidance Ultrasound: A New Instructional Concept for Untrained Scanners. <i>Journal for Vascular Ultrasound</i> , 2013 , 37, 91-94	0.1	
41	Sex differences in blood pressure control during 6 \square head-down tilt bed rest. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H1114-23	5.2	15
40	Abdomen-high elastic gradient compression garments during post-spaceflight stand tests. <i>Aviation, Space, and Environmental Medicine</i> , 2013 , 84, 459-66		16
39	Artificial gravity training reduces bed rest-induced cardiovascular deconditioning. <i>European Journal of Applied Physiology</i> , 2012 , 112, 605-16	3.4	54
38	Virtual guidance as a tool to obtain diagnostic ultrasound for spaceflight and remote environments. <i>Aviation, Space, and Environmental Medicine</i> , 2012 , 83, 995-1000		8
37	The change in lower limb venous compliance is different between women and men following 60 days of head-down bedrest but is not associated with venoconstrictor dysfunction. <i>FASEB Journal</i> , 2012 , 26, 1085.5	0.9	1
36	Musculoskeletal adaptations to training with the advanced resistive exercise device. <i>Medicine and Science in Sports and Exercise</i> , 2011 , 43, 146-56	1.2	74
35	Test battery designed to quickly and safely assess diverse indices of neuromuscular function after unweighting. <i>Journal of Strength and Conditioning Research</i> , 2011 , 25, 545-55	3.2	13
34	Metabolic consequences of garments worn to protect against post-spaceflight orthostatic intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2011 , 82, 648-53		4

33	Near infrared spectroscopy-derived interstitial hydrogen ion concentration and tissue oxygen saturation during ambulation. <i>European Journal of Applied Physiology</i> , 2011 , 111, 1705-14	3.4	7
32	Aerobic exercise deconditioning and countermeasures during bed rest. <i>Aviation, Space, and Environmental Medicine</i> , 2010 , 81, 52-63		35
31	Muscle volume, strength, endurance, and exercise loads during 6-month missions in space. <i>Aviation, Space, and Environmental Medicine</i> , 2010 , 81, 91-102		105
30	Gradient compression garments as a countermeasure to post-spaceflight orthostatic intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2010 , 81, 883-7		29
29	Gender Differences in Baroreflex Sensitivity after Bed Rest. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 535-536	1.2	
28	Metabolic Cost of Simulated Egress while Wearing Compression Garments Used to Prevent Orthostatic Intolerance. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 512-513	1.2	
27	Cardiovascular exercise in the U.S. space program: Past, present and future. <i>Acta Astronautica</i> , 2010 , 66, 974-988	2.9	54
26	LBNP exercise protects aerobic capacity and sprint speed of female twins during 30 days of bed rest. <i>Journal of Applied Physiology</i> , 2009 , 106, 919-28	3.7	31
25	Determinants of time to fatigue during nonmotorized treadmill exercise. <i>Journal of Strength and Conditioning Research</i> , 2009 , 23, 883-90	3.2	6
24	WISE-2005: exercise and nutrition countermeasures for upright VO ₂ pk during bed rest. <i>Medicine and Science in Sports and Exercise</i> , 2009 , 41, 2165-76	1.2	37
23	Compression garments as countermeasures to orthostatic intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2009 , 80, 437-42		50
22	WISE-2005: supine treadmill exercise within lower body negative pressure and flywheel resistive exercise as a countermeasure to bed rest-induced bone loss in women during 60-day simulated microgravity. <i>Bone</i> , 2008 , 42, 572-81	4.7	62
21	Noninvasive determination of exercise-induced hydrogen ion threshold through direct optical measurement. <i>Journal of Applied Physiology</i> , 2008 , 104, 837-44	3.7	22
20	Artificial Gravity Prevents Loss of Peak Oxygen Uptake During 21 Days of Bed Rest. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, S302	1.2	
19	Bone Mineral Density Adaptations of the Hip and Spine to Training with the Advanced Resistive Exercise Device and with Free Weights in Ambulatory Subjects. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, S303	1.2	
18	Comparison of Noninvasively Determined Hydrogen Ion and Lactate Thresholds During Cycle Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, S426	1.2	
17	WISE-2005: Lower Body Negative Pressure Treadmill and Resistive Exercise Countermeasures Maintain Physiologic Function in Women during 60-days of Simulated Microgravity. <i>FASEB Journal</i> , 2008 , 22, 752.15	0.9	1
16	Lower body negative pressure exercise plus brief postexercise lower body negative pressure improve post-bed rest orthostatic tolerance. <i>Journal of Applied Physiology</i> , 2007 , 103, 1964-72	3.7	42

15	Supine LBNP exercise maintains exercise capacity in male twins during 30-d bed rest. <i>Medicine and Science in Sports and Exercise</i> , 2007 , 39, 1315-26	1.2	33
14	Lower body negative pressure treadmill exercise as a countermeasure for bed rest-induced bone loss in female identical twins. <i>Bone</i> , 2007 , 40, 529-37	4.7	68
13	Space exercise and Earth benefits. <i>Current Pharmaceutical Biotechnology</i> , 2005 , 6, 305-17	2.6	18
12	Foot-ground reaction force during resistive exercise in parabolic flight. <i>Aviation, Space, and Environmental Medicine</i> , 2004 , 75, 405-12		7
11	Training with the International Space Station interim resistive exercise device. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 1935-45	1.2	45
10	Role of skin blood flow and sweating rate in exercise thermoregulation after bed rest. <i>Journal of Applied Physiology</i> , 2002 , 92, 2026-34	3.7	30
9	Lower-body negative-pressure exercise and bed-rest-mediated orthostatic intolerance. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 1446-53	1.2	30
8	Maximal exercise as a countermeasure to orthostatic intolerance after spaceflight. <i>Medicine and Science in Sports and Exercise</i> , 2001 , 33, 75-80	1.2	21
7	Simulated shuttle egress: comparison of two Space Shuttle protective garments. <i>Aviation, Space, and Environmental Medicine</i> , 2001 , 72, 110-4		3
6	Simulated shuttle egress: role of helmet visor position during approach and landing. <i>Aviation, Space, and Environmental Medicine</i> , 2001 , 72, 484-9		4
5	Supine lower body negative pressure exercise during bed rest maintains upright exercise capacity. <i>Journal of Applied Physiology</i> , 2000 , 89, 218-27	3.7	91
4	Core temperature measurement during supine exercise: esophageal, rectal, and intestinal temperatures. <i>Aviation, Space, and Environmental Medicine</i> , 2000 , 71, 939-45		32
3	Inflight exercise affects stand test responses after space flight. <i>Medicine and Science in Sports and Exercise</i> , 1999 , 31, 1755-62	1.2	19
2	Carbon dioxide accumulation, walking performance, and metabolic cost in the NASA launch and entry suit. <i>Aviation, Space, and Environmental Medicine</i> , 1999 , 70, 656-65		11
1	Upright exercise or supine lower body negative pressure exercise maintains exercise responses after bed rest. <i>Medicine and Science in Sports and Exercise</i> , 1997 , 29, 892-900	1.2	44