Stuart Lee

List of Publications by Citations

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	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. *Science*, **2019**, 364,	33.3	300
85	Muscle volume, strength, endurance, and exercise loads during 6-month missions in space. *Aviation, Space, and Environmental Medicine*, **2010**, 81, 91-102		105
84	Supine lower body negative pressure exercise during bed rest maintains upright exercise capacity. *Journal of Applied Physiology*, **2000**, 89, 218-27	3.7	91
83	Peak exercise oxygen uptake during and following long-duration spaceflight. *Journal of Applied Physiology*, **2014**, 117, 231-8	3.7	77
82	Musculoskeletal adaptations to training with the advanced resistive exercise device. *Medicine and Science in Sports and Exercise*, **2011**, 43, 146-56	1.2	74
81	Assessment of Jugular Venous Blood Flow Stasis and Thrombosis During Spaceflight. *JAMA Network Open*, **2019**, 2, e1915011	10.4	70
80	Lower body negative pressure treadmill exercise as a countermeasure for bed rest-induced bone loss in female identical twins. *Bone*, **2007**, 40, 529-37	4.7	68
79	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. *Bone*, **2008**, 42, 572-81	4.7	62
78	Physiological and Functional Alterations after Spaceflight and Bed Rest. *Medicine and Science in Sports and Exercise*, **2018**, 50, 1961-1980	1.2	57
77	Artificial gravity training reduces bed rest-induced cardiovascular deconditioning. *European Journal of Applied Physiology*, **2012**, 112, 605-16	3.4	54
76	Cardiovascular exercise in the U.S. space program: Past, present and future. *Acta Astronautica*, **2010** , 66, 974-988	2.9	54
75	Compression garments as countermeasures to orthostatic intolerance. *Aviation, Space, and Environmental Medicine*, **2009**, 80, 437-42		50
74	Orthostatic Intolerance After ISS and Space Shuttle Missions. *Aerospace Medicine and Human Performance*, **2015**, 86, A54-A67	1.1	49
73	Optic Disc Edema after 30 Days of Strict Head-down Tilt Bed Rest. *Ophthalmology*, **2019**, 126, 467-468	7.3	48
72	Training with the International Space Station interim resistive exercise device. *Medicine and Science in Sports and Exercise*, **2003**, 35, 1935-45	1.2	45
71	Upright exercise or supine lower body negative pressure exercise maintains exercise responses after bed rest. *Medicine and Science in Sports and Exercise*, **1997**, 29, 892-900	1.2	44
70	Isokinetic Strength Changes Following Long-Duration Spaceflight on the ISS. *Aerospace Medicine and Human Performance*, **2015**, 86, A68-A77	1.1	42

69	Lower body negative pressure exercise plus brief postexercise lower body negative pressure improve post-bed rest orthostatic tolerance. *Journal of Applied Physiology*, **2007**, 103, 1964-72	3.7	42
68	Effects of short-term mild hypercapnia during head-down tilt on intracranial pressure and ocular structures in healthy human subjects. *Physiological Reports*, **2017**, 5, e13302	2.6	37
67	WISE-2005: exercise and nutrition countermeasures for upright VO2pk during bed rest. *Medicine and Science in Sports and Exercise*, **2009**, 41, 2165-76	1.2	37
66	Optic Disc Edema and Choroidal Engorgement in Astronauts During Spaceflight and Individuals Exposed to Bed Rest. *JAMA Ophthalmology*, **2020**, 138, 165-172	3.9	37
65	Association of Long-Duration Spaceflight With Anterior and Posterior Ocular Structure Changes in Astronauts and Their Recovery. *JAMA Ophthalmology*, **2020**, 138, 553-559	3.9	36
64	Early-phase musculoskeletal adaptations to different levels of eccentric resistance after 8 weeks of lower body training. *European Journal of Applied Physiology*, **2014**, 114, 2263-80	3.4	36
63	WISE-2005: Countermeasures to prevent muscle deconditioning during bed rest in women. *Journal of Applied Physiology*, **2014**, 116, 654-67	3.7	35
62	Aerobic exercise deconditioning and countermeasures during bed rest. *Aviation, Space, and Environmental Medicine*, **2010**, 81, 52-63		35
61	Supine LBNP exercise maintains exercise capacity in male twins during 30-d bed rest. *Medicine and Science in Sports and Exercise*, **2007**, 39, 1315-26	1.2	33
60	Core temperature measurement during supine exercise: esophageal, rectal, and intestinal temperatures. *Aviation, Space, and Environmental Medicine*, **2000**, 71, 939-45		32
59	LBNP exercise protects aerobic capacity and sprint speed of female twins during 30 days of bed rest. *Journal of Applied Physiology*, **2009**, 106, 919-28	3.7	31
58	Role of skin blood flow and sweating rate in exercise thermoregulation after bed rest. *Journal of Applied Physiology*, **2002**, 92, 2026-34	3.7	30
57	Lower-body negative-pressure exercise and bed-rest-mediated orthostatic intolerance. *Medicine and Science in Sports and Exercise*, **2002**, 34, 1446-53	1.2	30
56	Gradient compression garments as a countermeasure to post-spaceflight orthostatic intolerance. *Aviation, Space, and Environmental Medicine*, **2010**, 81, 883-7		29
55	Spatial heterogeneity in the response of the proximal femur to two lower-body resistance exercise regimens. *Journal of Bone and Mineral Research*, **2014**, 29, 1337-45	6.3	26
54	Left ventricular remodeling during and after 60 days of sedentary head-down bed rest. *Journal of Applied Physiology*, **2016**, 120, 956-64	3.7	24
53	Noninvasive determination of exercise-induced hydrodgen ion threshold through direct optical measurement. *Journal of Applied Physiology*, **2008**, 104, 837-44	3.7	22
52	Maximal exercise as a countermeasure to orthostatic intolerance after spaceflight. *Medicine and Science in Sports and Exercise*, **2001**, 33, 75-80	1.2	21

51	WISE 2005: Aerobic and resistive countermeasures prevent paraspinal muscle deconditioning during 60-day bed rest in women. *Journal of Applied Physiology*, **2016**, 120, 1215-22	3.7	21
50	Internal jugular pressure increases during parabolic flight. *Physiological Reports*, **2016**, 4, e13068	2.6	19
49	Association of Genetics and B Vitamin Status With the Magnitude of Optic Disc Edema During 30-Day Strict Head-Down Tilt Bed Rest. *JAMA Ophthalmology*, **2019**, 137, 1195-1200	3.9	19
48	Inflight exercise affects stand test responses after space flight. *Medicine and Science in Sports and Exercise*, **1999**, 31, 1755-62	1.2	19
47	Space exercise and Earth benefits. *Current Pharmaceutical Biotechnology*, **2005**, 6, 305-17	2.6	18
46	Thigh Cuffs as a Countermeasure for Ocular Changes in Simulated Weightlessness. *Ophthalmology*, **2018**, 125, 459-460	7.3	18
45	Unchanged cerebrovascular CO reactivity and hypercapnic ventilatory response during strict head-down tilt bed rest in a mild hypercapnic environment. *Journal of Physiology*, **2020**, 598, 2491-2505	3.9	17
44	Abdomen-high elastic gradient compression garments during post-spaceflight stand tests. *Aviation, Space, and Environmental Medicine*, **2013**, 84, 459-66		16
43	Sex differences in blood pressure control during 6° head-down tilt bed rest. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H1114-23	5.2	15
42	Arterial structure and function during and after long-duration spaceflight. *Journal of Applied Physiology*, **2020**, 129, 108-123	3.7	14
41	Multi-omic, Single-Cell, and Biochemical Profiles of Astronauts Guide Pharmacological Strategies for Returning to Gravity. *Cell Reports*, **2020**, 33, 108429	10.6	14
40	Test battery designed to quickly and safely assess diverse indices of neuromuscular function after unweighting. *Journal of Strength and Conditioning Research*, **2011**, 25, 545-55	3.2	13
39	Gradient compression garments protect against orthostatic intolerance during recovery from bed rest. *European Journal of Applied Physiology*, **2014**, 114, 597-608	3.4	12
38	Carbon dioxide accumulation, walking performance, and metabolic cost in the NASA launch and entry suit. *Aviation, Space, and Environmental Medicine*, **1999**, 70, 656-65		11
37	Treadmill exercise within lower-body negative pressure attenuates simulated spaceflight-induced reductions of balance abilities in men but not women. *Npj Microgravity*, **2016**, 2, 16022	5.3	10
36	Treadmill exercise within lower body negative pressure protects leg lean tissue mass and extensor strength and endurance during bed rest. *Physiological Reports*, **2016**, 4, e12892	2.6	9
35	Virtual guidance as a tool to obtain diagnostic ultrasound for spaceflight and remote environments. *Aviation, Space, and Environmental Medicine*, **2012**, 83, 995-1000		8
34	Near infrared spectroscopy-derived interstitial hydrogen ion concentration and tissue oxygen saturation during ambulation. *European Journal of Applied Physiology*, **2011**, 111, 1705-14	3.4	7

33	Changes in the Optic Nerve Head and Choroid Over 1 Year of Spaceflight. *JAMA Ophthalmology*, **2021**, 139, 663-667	3.9	7
32	Intraocular pressure and choroidal thickness respond differently to lower body negative pressure during spaceflight. *Journal of Applied Physiology*, **2021**, 131, 613-620	3.7	7
31	Foot-ground reaction force during resistive exercise in parabolic flight. *Aviation, Space, and Environmental Medicine*, **2004**, 75, 405-12		7
30	Determinants of time to fatigue during nonmotorized treadmill exercise. *Journal of Strength and Conditioning Research*, **2009**, 23, 883-90	3.2	6
29	Mechanical countermeasures to headward fluid shifts. *Journal of Applied Physiology*, **2021**, 130, 1766-1777	3.7	6
28	Efficacy of Gradient Compression Garments in the Hours After Long-Duration Spaceflight. *Frontiers in Physiology*, **2020**, 11, 784	4.6	5
27	Metabolic consequences of garments worn to protect against post-spaceflight orthostatic intolerance. *Aviation, Space, and Environmental Medicine*, **2011**, 82, 648-53		4
26	Vestibular and Cardiovascular Responses After Long-Duration Spaceflight. *Aerospace Medicine and Human Performance*, **2020**, 91, 621-627	1.1	4
25	Venous and Arterial Responses to Partial Gravity. *Frontiers in Physiology*, **2020**, 11, 863	4.6	4
24	Optic disc edema and chorioretinal folds develop during strict 6° head-down tilt bed rest with or without artificial gravity. *Physiological Reports*, **2021**, 9, e14977	2.6	4
23	Simulated shuttle egress: role of helmet visor position during approach and landing. *Aviation, Space, and Environmental Medicine*, **2001**, 72, 484-9		4
22	Encyclopedia of Bioastronautics **2019**, 1-19		3
21	Cardiac Effects of Repeated Weightlessness During Extreme Duration Swimming Compared With Spaceflight. *Circulation*, **2021**, 143, 1533-1535	16.7	3
20	Lower body negative pressure reduces jugular and portal vein volumes and counteracts the elevation of middle cerebral vein velocity during long-duration spaceflight. *Journal of Applied Physiology*, **2021**, 131, 1080-1087	3.7	3
19	Simulated shuttle egress: comparison of two Space Shuttle protective garments. *Aviation, Space, and Environmental Medicine*, **2001**, 72, 110-4		3
18	Physical Performance, Countermeasures, and Postflight Reconditioning **2019**, 609-658		2
17	Association of Structural Changes in the Brain and Retina After Long-Duration Spaceflight. *JAMA Ophthalmology*, **2021**, 139, 781-784	3.9	2
16	Fluid Shifts and Cardiovascular-Related Factors That May Contribute to the VIIP Syndrome in Astronauts **2017**, 39-68		1

15	WISE-2005: Lower Body Negative Pressure Treadmill and Resistive Exercise Countermeasures Maintain Physiologic Function in Women during 60-days of Simulated Microgravity. *FASEB Journal*, **2008**, 22, 752.15	0.9	1
14	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. *FASEB Journal*, **2012**, 26, 1085.5	0.9	1
13	International standard measures during the VaPER bed rest study. *Acta Astronautica*, **2022**, 190, 208-217	2.9	0
12	Bellagio II Report: Terrestrial Applications of Space Medicine Research. *Aerospace Medicine and Human Performance*, **2021**, 92, 650-669	1.1	0
11	Submaximal Exercise Responses Before and During Long Duration Space Flight. *Medicine and Science in Sports and Exercise*, **2017**, 49, 290	1.2	
10	Virtual Guidance Ultrasound: A New Instructional Concept for Untrained Scanners. *Journal for Vascular Ultrasound*, **2013**, 37, 91-94	0.1	
9	Gender Differences in Baroreflex Sensitivity after Bed Rest. *Medicine and Science in Sports and Exercise*, **2010**, 42, 535-536	1.2	
8	Metabolic Cost of Simulated Egress while Wearing Compression Garments Used to Prevent Orthostatic Intolerance. *Medicine and Science in Sports and Exercise*, **2010**, 42, 512-513	1.2	
7	Reply to Greaves et al. *Journal of Applied Physiology*, **2020**, 129, 1113	3.7	
6	Artificial Gravity Prevents Loss of Peak Oxygen Uptake During 21 Days of Bed Rest. *Medicine and Science in Sports and Exercise*, **2008**, 40, S302	1.2	
5	Bone Mineral Density Adaptations of the Hip and Spine to Training with the Advanced Resistive Exercise Device and with Free Weights in Ambulatory Subjects. *Medicine and Science in Sports and Exercise*, **2008**, 40, S303	1.2	
4	Comparison of Noninvasively Determined Hydrogen Ion and Lactate Thresholds During Cycle Exercise. *Medicine and Science in Sports and Exercise*, **2008**, 40, S426	1.2	
3	Reliability of the Portable Metabolic Gas Analysis System used on the International Space Station. *Medicine and Science in Sports and Exercise*, **2018**, 50, 338	1.2	
2	Cardiovascular Deconditioning and Exercise **2020**, 1-20		
1	Cardiovascular Deconditioning and Exercise **2021**, 129-153		