

# Stuart Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

3,227  
citations

136740

32  
h-index

161609

54  
g-index

106  
all docs

106  
docs citations

106  
times ranked

2367  
citing authors

#	ARTICLE	IF	CITATIONS
1	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , 2019, 364, .	6.0	576
2	Assessment of Jugular Venous Blood Flow Stasis and Thrombosis During Spaceflight. <i>JAMA Network Open</i> , 2019, 2, e1915011.	2.8	152
3	Muscle Volume, Strength, Endurance, and Exercise Loads During 6-Month Missions in Space. <i>Aviation, Space, and Environmental Medicine</i> , 2010, 81, 91-104.	0.6	129
4	Physiological and Functional Alterations after Spaceflight and Bed Rest. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1961-1980.	0.2	108
5	Supine lower body negative pressure exercise during bed rest maintains upright exercise capacity. <i>Journal of Applied Physiology</i> , 2000, 89, 218-227.	1.2	107
6	Peak exercise oxygen uptake during and following long-duration spaceflight. <i>Journal of Applied Physiology</i> , 2014, 117, 231-238.	1.2	105
7	Musculoskeletal Adaptations to Training with the Advanced Resistive Exercise Device. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 146-156.	0.2	88
8	Optic Disc Edema after 30 Days of Strict Head-down Tilt Bed Rest. <i>Ophthalmology</i> , 2019, 126, 467-468.	2.5	76
9	Lower body negative pressure treadmill exercise as a countermeasure for bed rest-induced bone loss in female identical twins. <i>Bone</i> , 2007, 40, 529-537.	1.4	75
10	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, 572-581.	1.4	72
11	Artificial gravity training reduces bed rest-induced cardiovascular deconditioning. <i>European Journal of Applied Physiology</i> , 2012, 112, 605-616.	1.2	72
12	Orthostatic Intolerance After ISS and Space Shuttle Missions. <i>Aerospace Medicine and Human Performance</i> , 2015, 86, 54-67.	0.2	69
13	Optic Disc Edema and Choroidal Engorgement in Astronauts During Spaceflight and Individuals Exposed to Bed Rest. <i>JAMA Ophthalmology</i> , 2020, 138, 165.	1.4	65
14	Cardiovascular exercise in the U.S. space program: Past, present and future. <i>Acta Astronautica</i> , 2010, 66, 974-988.	1.7	64
15	Association of Long-Duration Spaceflight With Anterior and Posterior Ocular Structure Changes in Astronauts and Their Recovery. <i>JAMA Ophthalmology</i> , 2020, 138, 553.	1.4	64
16	Compression Garments as Countermeasures to Orthostatic Intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2009, 80, 437-442.	0.6	58
17	Training with the International Space Station Interim Resistive Exercise Device. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1935-1945.	0.2	57
18	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.	0.7	55

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19	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, 1964-1972.	1.2	51
20	Isokinetic Strength Changes Following Long-Duration Spaceflight on the ISS. <i>Aerospace Medicine and Human Performance</i> , 2015, 86, 68-77.	0.2	51
21	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.	0.2	49
22	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, 2263-2280.	1.2	46
23	WISE-2005: Countermeasures to prevent muscle deconditioning during bed rest in women. <i>Journal of Applied Physiology</i> , 2014, 116, 654-667.	1.2	45
24	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, 1315-1326.	0.2	44
25	WISE-2005. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 2165-2176.	0.2	43
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, 919-928.	1.2	40
27	Aerobic Exercise Deconditioning and Countermeasures During Bed Rest. <i>Aviation, Space, and Environmental Medicine</i> , 2010, 81, 52-63.	0.6	40
28	Left ventricular remodeling during and after 60 days of sedentary head-down bed rest. <i>Journal of Applied Physiology</i> , 2016, 120, 956-964.	1.2	39
29	Multi-omic, Single-Cell, and Biochemical Profiles of Astronauts Guide Pharmacological Strategies for Returning to Gravity. <i>Cell Reports</i> , 2020, 33, 108429.	2.9	37
30	Arterial structure and function during and after long-duration spaceflight. <i>Journal of Applied Physiology</i> , 2020, 129, 108-123.	1.2	36
31	Lower-body negative-pressure exercise and bed-rest-mediated orthostatic intolerance. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1446-1453.	0.2	35
32	Gradient Compression Garments as a Countermeasure to Post-Spaceflight Orthostatic Intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2010, 81, 883-887.	0.6	35
33	Internal jugular pressure increases during parabolic flight. <i>Physiological Reports</i> , 2016, 4, e13068.	0.7	33
34	Core temperature measurement during supine exercise: esophageal, rectal, and intestinal temperatures. <i>Aviation, Space, and Environmental Medicine</i> , 2000, 71, 939-45.	0.6	33
35	Role of skin blood flow and sweating rate in exercise thermoregulation after bed rest. <i>Journal of Applied Physiology</i> , 2002, 92, 2026-2034.	1.2	32
36	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.	1.4	32

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37	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, 1215-1222.	1.2	30
38	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, 1337-1345.	3.1	28
39	Maximal exercise as a countermeasure to orthostatic intolerance after spaceflight. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 75-80.	0.2	26
40	Unchanged cerebrovascular CO <sub>2</sub> 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.	1.3	26
41	Noninvasive determination of exercise-induced hydrogen ion threshold through direct optical measurement. <i>Journal of Applied Physiology</i> , 2008, 104, 837-844.	1.2	25
42	Thigh Cuffs as a Countermeasure for Ocular Changes in Simulated Weightlessness. <i>Ophthalmology</i> , 2018, 125, 459-460.	2.5	23
43	Space Exercise and Earth Benefits. <i>Current Pharmaceutical Biotechnology</i> , 2005, 6, 305-317.	0.9	21
44	Abdomen-High Elastic Gradient Compression Garments During Post-Spaceflight Stand Tests. <i>Aviation, Space, and Environmental Medicine</i> , 2013, 84, 459-466.	0.6	21
45	Intraocular pressure and choroidal thickness respond differently to lower body negative pressure during spaceflight. <i>Journal of Applied Physiology</i> , 2021, 131, 613-620.	1.2	21
46	Inflight exercise affects stand test responses after space flight. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 1755.	0.2	21
47	Sex differences in blood pressure control during 6° head-down tilt bed rest. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H1114-H1123.	1.5	19
48	Optic disc edema and chorioretinal folds develop during strict 6° head-down tilt bed rest with or without artificial gravity. <i>Physiological Reports</i> , 2021, 9, e14977.	0.7	18
49	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.	1.9	16
50	Changes in the Optic Nerve Head and Choroid Over 1 Year of Spaceflight. <i>JAMA Ophthalmology</i> , 2021, 139, 663.	1.4	16
51	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, 545-555.	1.0	15
52	Mechanical countermeasures to headward fluid shifts. <i>Journal of Applied Physiology</i> , 2021, 130, 1766-1777.	1.2	15
53	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.	1.2	14
54	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.	0.6	13

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55	Gradient compression garments protect against orthostatic intolerance during recovery from bed rest. <i>European Journal of Applied Physiology</i> , 2014, 114, 597-608.	1.2	13
56	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.	0.7	11
57	Efficacy of Gradient Compression Garments in the Hours After Long-Duration Spaceflight. <i>Frontiers in Physiology</i> , 2020, 11, 784.	1.3	11
58	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.	0.6	11
59	Cardiac Effects of Repeated Weightlessness During Extreme Duration Swimming Compared With Spaceflight. <i>Circulation</i> , 2021, 143, 1533-1535.	1.6	10
60	Determinants of Time to Fatigue During Nonmotorized Treadmill Exercise. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 883-890.	1.0	9
61	Near infrared spectroscopy-derived interstitial hydrogen ion concentration and tissue oxygen saturation during ambulation. <i>European Journal of Applied Physiology</i> , 2011, 111, 1705-1714.	1.2	9
62	Vestibular and Cardiovascular Responses After Long-Duration Spaceflight. <i>Aerospace Medicine and Human Performance</i> , 2020, 91, 621-627.	0.2	9
63	Venous and Arterial Responses to Partial Gravity. <i>Frontiers in Physiology</i> , 2020, 11, 863.	1.3	9
64	Association of Structural Changes in the Brain and Retina After Long-Duration Spaceflight. <i>JAMA Ophthalmology</i> , 2021, 139, 781.	1.4	9
65	Foot-ground reaction force during resistive exercise in parabolic flight. <i>Aviation, Space, and Environmental Medicine</i> , 2004, 75, 405-12.	0.6	7
66	Metabolic Consequences of Garments Worn to Protect Against Post-Spaceflight Orthostatic Intolerance. <i>Aviation, Space, and Environmental Medicine</i> , 2011, 82, 648-653.	0.6	5
67	International standard measures during the VaPER bed rest study. <i>Acta Astronautica</i> , 2022, 190, 208-217.	1.7	5
68	Long-term Cardiovascular Risk in Astronauts. <i>Mayo Clinic Proceedings</i> , 2022, 97, 1237-1246.	1.4	5
69	Physical Performance, Countermeasures, and Postflight Reconditioning. , 2019, , 609-658.		4
70	Simulated shuttle egress: role of helmet visor position during approach and landing. <i>Aviation, Space, and Environmental Medicine</i> , 2001, 72, 484-9.	0.6	4
71	Cardiovascular Deconditioning and Exercise. , 2019, , 1-19.		3
72	Simulated shuttle egress: comparison of two Space Shuttle protective garments. <i>Aviation, Space, and Environmental Medicine</i> , 2001, 72, 110-4.	0.6	3

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73	WISEâ€2005: Lower Body Negative Pressure Treadmill and Resistive Exercise Countermeasures Maintain Physiologic Function in Women during 60â€days of Simulated Microgravity. FASEB Journal, 2008, 22, 752.15.	0.2	2
74	Multi-Omic,âSingle-Cell, and Biochemical Profiles of Astronauts Guide Pharmacological Strategies for Returning to Gravity. SSRN Electronic Journal, 0, , .	0.4	2
75	High-Intensity Resistive and Rowing Exercises Do Not Prevent Orthostatic Intolerance after 70 Days of Bed Rest. Medicine and Science in Sports and Exercise, 2015, 47, 717-718.	0.2	1
76	Fluid Shifts and Cardiovascular-Related Factors That May Contribute to the VIIP Syndrome in Astronauts. , 2017, , 39-68.		1
77	Bellagio II Report: Terrestrial Applications of Space Medicine Research. Aerospace Medicine and Human Performance, 2021, 92, 650-669.	0.2	1
78	Near-infrared Spectroscopic Measurements Of Calf Muscle During Walking At Simulated Reduced Gravity- Preliminary Results. Medicine and Science in Sports and Exercise, 2009, 41, 58-59.	0.2	1
79	The change in lower limb venous compliance is different between women and men following 60 days of headâ€down bedrest but is not associated with venoconstrictor dysfunction. FASEB Journal, 2012, 26, 1085.5.	0.2	1
80	Gender Differences in Baroreflex Sensitivity after Bed Rest. Medicine and Science in Sports and Exercise, 2010, 42, 535-536.	0.2	0
81	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.	0.2	0
82	Oxygen Consumption and Heart Rate Responses in Graded Exercise during Long-Duration Space Flight. Medicine and Science in Sports and Exercise, 2010, 42, 515.	0.2	0
83	Splanchnic Compression Improves the Efficacy of Compression Stockings to Prevent Orthostatic Intolerance. Medicine and Science in Sports and Exercise, 2010, 42, 515.	0.2	0
84	Reliability of a Test Battery Designed for Quickly and Safely Assessing Diverse Indices of Neuromuscular Function. Medicine and Science in Sports and Exercise, 2010, 42, 80.	0.2	0
85	Heart Rate Response during Mission-Critical Tasks after Space Flight. Medicine and Science in Sports and Exercise, 2011, 43, 820.	0.2	0
86	Custom Gradient Compression Stockings May Prevent Orthostatic Intolerance In Astronauts After Space Flight. Medicine and Science in Sports and Exercise, 2011, 43, 822.	0.2	0
87	Development Of An Integrated Countermeasure Device For Use In Long-duration Space Flight. Medicine and Science in Sports and Exercise, 2011, 43, 820-821.	0.2	0
88	NIRS-Derived Tissue Oxygen Saturation and Hydrogen Ion Concentration following Bed Rest. Medicine and Science in Sports and Exercise, 2011, 43, 823.	0.2	0
89	Virtual Guidance Ultrasound: A New Instructional Concept for Untrained Scanners. Journal for Vascular Ultrasound, 2013, 37, 91-94.	0.2	0
90	Peak Oxygen Uptake During And After Long-duration Space Flight. Medicine and Science in Sports and Exercise, 2014, 46, 429.	0.2	0

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91	WISE 2005. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 586.	0.2	0
92	Submaximal Exercise Responses Before and During Long Duration Space Flight. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 290.	0.2	0
93	Abstract P192: Orthostatic Tolerance Before And After 60 Days Of Strict Head Down Tilt Bedrest With And Without Daily Artificial Gravity Training. <i>Hypertension</i> , 2021, 78, .	1.3	0
94	Cardiovascular Deconditioning and Exercise. , 2021, , 129-153.		0
95	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.	0.2	0
96	Joint Angles at Heel Strike and Toe Off during Motorized and Non-Motorized Treadmill Locomotion. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S302-S303.	0.2	0
97	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.	0.2	0
98	Comparison of Noninvasively Determined Hydrogen Ion and Lactate Thresholds During Cycle Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S426.	0.2	0
99	Arterial Structure And Function In Women And Men Following Long Duration Bed Rest. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 68.	0.2	0
100	Time-to-fatigue And Intramuscular Ph Measured Via Nirs During Handgrip Exercise In Trained And Sedentary Individuals. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 205-206.	0.2	0
101	Reliability Of Maximal Strength Testing In Novice Weightlifters. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 132.	0.2	0
102	Using Maximal Isometric Force To Determine The Optimal Load For Measuring Dynamic Muscle Power. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 263.	0.2	0
103	Changes In Muscle Volume And Strength Following 16 Weeks Of Training Using The Advanced Resistive Exercise Device (ARED) And Free Weights. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 284-285.	0.2	0
104	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.	0.2	0
105	Cardiovascular Deconditioning and Exercise. , 2020, , 1-20.		0
106	Reply to Greaves et al.. <i>Journal of Applied Physiology</i> , 2020, 129, 1113-1113.	1.2	0