Steven S Laurie

List of Publications by Year
in descending order

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42 papers	1,869 citations	361413 20 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	1810 citing authors

#	Article	IF	Citations
1	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. Science, 2019, 364, .	12.6	576
2	Assessment of Jugular Venous Blood Flow Stasis and Thrombosis During Spaceflight. JAMA Network Open, 2019, 2, e1915011.	5.9	152
3	Physiological and Functional Alterations after Spaceflight and Bed Rest. Medicine and Science in Sports and Exercise, 2018, 50, 1961-1980.	0.4	108
4	AltitudeOmics: The Integrative Physiology of Human Acclimatization to Hypobaric Hypoxia and Its Retention upon Reascent. PLoS ONE, 2014, 9, e92191.	2.5	88
5	Optic Disc Edema after 30 Days of Strict Head-down Tilt Bed Rest. Ophthalmology, 2019, 126, 467-468.	5.2	76
6	Ventilatory and Sensory Responses in Adult Survivors of Preterm Birth and Bronchopulmonary Dysplasia with Reduced Exercise Capacity. Annals of the American Thoracic Society, 2014, 11, 1528-1537.	3.2	75
7	Intracranial Effects of Microgravity: A Prospective Longitudinal MRI Study. Radiology, 2020, 295, 640-648.	7.3	71
8	Hypoxia-induced intrapulmonary arteriovenous shunting at rest in healthy humans. Journal of Applied Physiology, 2010, 109, 1072-1079.	2.5	69
9	Optic Disc Edema and Choroidal Engorgement in Astronauts During Spaceflight and Individuals Exposed to Bed Rest. JAMA Ophthalmology, 2020, 138, 165.	2.5	65
10	Association of Long-Duration Spaceflight With Anterior and Posterior Ocular Structure Changes in Astronauts and Their Recovery. JAMA Ophthalmology, 2020, 138, 553.	2.5	64
11	Catecholamine-induced opening of intrapulmonary arteriovenous anastomoses in healthy humans at rest. Journal of Applied Physiology, 2012, 113, 1213-1222.	2.5	55
12	Effects of shortâ€term mild hypercapnia during headâ€down tilt on intracranial pressure and ocular structures in healthy human subjects. Physiological Reports, 2017, 5, e13302.	1.7	55
13	Prevalence of left heart contrast in healthy, young, asymptomatic humans at rest breathing room air. Respiratory Physiology and Neurobiology, 2013, 188, 71-78.	1.6	54
14	Pulmonary gas exchange efficiency during exercise breathing normoxic and hypoxic gas in adults born very preterm with low diffusion capacity. Journal of Applied Physiology, 2014, 117, 473-481.	2.5	48
15	Arterial structure and function during and after long-duration spaceflight. Journal of Applied Physiology, 2020, 129, 108-123.	2.5	36
16	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.	2.5	32
17	AltitudeOmics: impaired pulmonary gas exchange efficiency and blunted ventilatory acclimatization in humans with patent foramen ovale after 16 days at 5,260 m. Journal of Applied Physiology, 2015, 118, 1100-1112.	2.5	31
18	Exaggerated Increase in Pulmonary Artery Pressure during Exercise in Adults Born Preterm. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 821-823.	5.6	26

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19	Unchanged cerebrovascular CO₂ reactivity and hypercapnic ventilatory response during strict headâ€down tilt bed rest in a mild hypercapnic environment. Journal of Physiology, 2020, 598, 2491-2505.	2.9	26
20	Thigh Cuffs as a Countermeasure for Ocular Changes in Simulated Weightlessness. Ophthalmology, 2018, 125, 459-460.	5.2	23
21	Focus on the Optic Nerve Head in Spaceflight-Associated Neuro-ocular Syndrome. Ophthalmology, 2019, 126, 1604-1606.	5.2	21
22	Intraocular pressure and choroidal thickness respond differently to lower body negative pressure during spaceflight. Journal of Applied Physiology, 2021, 131, 613-620.	2.5	21
23	Optic disc edema and chorioretinal folds develop during strict 6Â° headâ€down tilt bed rest with or without artificial gravity. Physiological Reports, 2021, 9, e14977.	1.7	18
24	Effects of head-down tilt bed rest plus elevated CO₂ on cognitive performance. Journal of Applied Physiology, 2021, 130, 1235-1246.	2.5	15
25	Mechanical countermeasures to headward fluid shifts. Journal of Applied Physiology, 2021, 130, 1766-1777.	2.5	15
26	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.	2.5	14
27	Changes in Optic Nerve Head and Retinal Morphology During Spaceflight and Acute Fluid Shift Reversal. JAMA Ophthalmology, 2022, 140, 763.	2.5	14
28	Association of Structural Changes in the Brain and Retina After Long-Duration Spaceflight. JAMA Ophthalmology, 2021, 139, 781.	2.5	9
29	Impaired pulmonary gas exchange efficiency, but normal pulmonary artery pressure increases, with hypoxia in men and women with a patent foramen ovale. Experimental Physiology, 2020, 105, 1648-1659.	2.0	6
30	No effect of patent foramen ovale on acute mountain sickness and pulmonary pressure in normobaric hypoxia. Experimental Physiology, 2022, 107, 122-132.	2.0	2
31	Cerebrovascular Effects of Lower Body Negative Pressure at 3T MRI : Implications for Longâ€Duration Space Travel. Journal of Magnetic Resonance Imaging, 2022, , .	3.4	2
32	Excessive Pulmonary Artery Systolic Pressure During Exercise in Adults with a History of Preterm Birth. Medicine and Science in Sports and Exercise, 2016, 48, 154-155.	0.4	1
33	Lower transfer factor of the lung for carbon monoxide in women with a patent foramen ovale. Experimental Physiology, 2022, , .	2.0	1
34	Reply to Van Liew and Vann. Journal of Applied Physiology, 2011, 110, 296-297.	2.5	0
35	Gas bubble composition does not affect the detection of exerciseâ€induced intrapulmonary arteriovenous shunt in hypoxia, normoxia or hyperoxia. FASEB Journal, 2010, 24, 615.2.	0.5	0
36	Mechanisms of hypoxiaâ€induced intrapulmonary arteriovenous shunting in healthy humans at rest: arterial oxygen saturation or pulmonary artery systolic pressure?. FASEB Journal, 2010, 24, 1061.1.	0.5	0

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37	Exerciseâ€induced flow limitation in adults with a history of bronchopulmonary dysplasia.. FASEB Journal, 2010, 24, .	0.5	0
38	Epinephrine opens intrapulmonary arteriovenous anastomoses in healthy humans at rest. FASEB Journal, 2012, 26, 1150.8.	0.5	0
39	Nifedipine does not open intrapulmonary arteriovenous anastomoses in healthy human subjects during exercise breathing 100% O 2. FASEB Journal, 2012, 26, 1138.46.	0.5	0
40	Direct demonstration that blood flow through intrapulmonary arteriovenous anastomoses worsens pulmonary gas exchange efficiency. FASEB Journal, 2013, 27, 723.7.	0.5	0
41	Quantification of hypoxiaâ€induced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans at rest. FASEB Journal, 2013, 27, 715.8.	0.5	0
42	Quantification of reduced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans during exercise breathing 100% O 2. FASEB Journal, 2013, 27, 1141.4.	0.5	0