Samuel N Cheuvront

List of Publications by Year
in descending order

67 papers	4,142 citations	136740 32 h-index	123241 61 g-index
68 all docs	68 docs citations	68 times ranked	2861 citing authors

#	Article	IF	Citations
1	Mechanisms of aerobic performance impairment with heat stress and dehydration. Journal of Applied Physiology, 2010, 109, 1989-1995.	1.2	360
2	Dehydration: Physiology, Assessment, and Performance Effects. , 2014, 4, 257-285.		311
3	Biological variation and diagnostic accuracy of dehydration assessment markers. American Journal of Clinical Nutrition, 2010, 92, 565-573.	2.2	300
4	Fluid Balance and Endurance Exercise Performance. Current Sports Medicine Reports, 2003, 2, 202-208.	0.5	284
5	National Athletic Trainers' Association Position Statement: Fluid Replacement for the Physically Active. Journal of Athletic Training, 2017, 52, 877-895.	0.9	242
6	Impact of Weather on Marathon-Running Performance. Medicine and Science in Sports and Exercise, 2007, 39, 487-493.	0.2	221
7	Thermoregulation and Marathon Running. Sports Medicine, 2001, 31, 743-762.	3.1	213
8	High skin temperature and hypohydration impair aerobic performance. Experimental Physiology, 2012, 97, 327-332.	0.9	155
9	Hypohydration and Human Performance: Impact of Environment and Physiological Mechanisms. Sports Medicine, 2015, 45, 51-60.	3.1	135
10	Physiologic basis for understanding quantitative dehydration assessment. American Journal of Clinical Nutrition, 2013, 97, 455-462.	2.2	134
11	Hypohydration impairs endurance exercise performance in temperate but not cold air. Journal of Applied Physiology, 2005, 99, 1972-1976.	1.2	131
12	Daily Body Mass Variability and Stability in Active Men Undergoing Exercise-Heat Stress. International Journal of Sport Nutrition and Exercise Metabolism, 2004, 14, 532-540.	1.0	124
13	A simple and valid method to determine thermoregulatory sweating threshold and sensitivity. Journal of Applied Physiology, 2009, 107, 69-75.	1.2	92
14	Efficacy of intermittent, regional microclimate cooling. Journal of Applied Physiology, 2003, 94, 1841-1848.	1.2	76
15	Effect of Hypohydration on Muscle Endurance, Strength, Anaerobic Power and Capacity and Vertical Jumping Ability: A Meta-Analysis. Sports Medicine, 2015, 45, 1207-1227.	3.1	74
16	Hydration effects on cognitive performance during military tasks in temperate and cold environments. Physiology and Behavior, 2008, 93, 748-756.	1.0	73
17	Effect of hypohydration and altitude exposure on aerobic exercise performance and acute mountain sickness. Journal of Applied Physiology, 2010, 109, 1792-1800.	1.2	67
18	Hypohydration and prior heat stress exacerbates decreases in cerebral blood flow velocity during standing. Journal of Applied Physiology, 2006, 101, 1744-1750.	1.2	62

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19	No effect of nutritional adenosine receptor antagonists on exercise performance in the heat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R394-R401.	0.9	62
20	Hypohydration and acute thermal stress affect mood state but not cognition or dynamic postural balance. European Journal of Applied Physiology, 2013, 113, 1027-1034.	1.2	61
21	No Effect of Moderate Hypohydration or Hyperthermia on Anaerobic Exercise Performance. Medicine and Science in Sports and Exercise, 2006, 38, 1093-1097.	0.2	59
22	Branched-chain amino acid supplementation and human performance when hypohydrated in the heat. Journal of Applied Physiology, 2004, 97, 1275-1282.	1.2	57
23	Spot Urine Concentrations Should Not Be Used for Hydration Assessment: A Methodology Review. International Journal of Sport Nutrition and Exercise Metabolism, 2015, 25, 293-297.	1.0	56
24	Practical Hydration Solutions for Sports. Nutrients, 2019, 11, 1550.	1.7	55
25	Water-deficit equation: systematic analysis and improvement. American Journal of Clinical Nutrition, 2013, 97, 79-85.	2.2	48
26	CORP: Improving the status quo for measuring whole body sweat losses. Journal of Applied Physiology, 2017, 123, 632-636.	1.2	46
27	Am I Drinking Enough? Yes, No, and Maybe. Journal of the American College of Nutrition, 2016, 35, 185-192.	1.1	43
28	Fluid Replacement and Performance During the Marathon. Sports Medicine, 2007, 37, 353-357.	3.1	42
29	Reference change values for monitoring dehydration. Clinical Chemistry and Laboratory Medicine, 2011, 49, 1033-7.	1.4	42
30	Comparison of sweat loss estimates for women during prolonged high-intensity running. Medicine and Science in Sports and Exercise, 2002, 34, 1344-1350.	0.2	38
31	Myths and methodologies: Making sense of exercise mass and water balance. Experimental Physiology, 2017, 102, 1047-1053.	0.9	37
32	Neither Cloud Cover nor Low Solar Loads Are Associated with Fast Marathon Performance. Medicine and Science in Sports and Exercise, 2007, 39, 2029-2035.	0.2	35
33	Potential impact of a 500-mL water bolus and body mass on plasma osmolality dilution. European Journal of Applied Physiology, 2011, 111, 1999-2004.	1.2	34
34	Validation of equations used to predict plasma osmolality in a healthy adult cohort. American Journal of Clinical Nutrition, 2014, 100, 1252-1256.	2.2	32
35	Limitations of Salivary Osmolality as a Marker of Hydration Status. Medicine and Science in Sports and Exercise, 2011, 43, 1080-1084.	0.2	30
36	Surface contamination artificially elevates initial sweat mineral concentrations. Journal of Applied Physiology, 2011, 110, 1534-1540.	1.2	30

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37	A Comparison of Whole Blood and Plasma Osmolality and Osmolarity. Journal of Clinical Laboratory Analysis, 2014, 28, 368-373.	0.9	22
38	Fluid Needs for Training, Competition, and Recovery in Track-and-Field Athletes. International Journal of Sport Nutrition and Exercise Metabolism, 2019, 29, 175-180.	1.0	21
39	Hydration assessment using the cardiovascular response to standing. European Journal of Applied Physiology, 2012, 112, 4081-4089.	1.2	18
40	Noninvasive assessment of extracellular and intracellular dehydration in healthy humans using the resistance-reactanceâ€“score graph method. American Journal of Clinical Nutrition, 2016, 103, 724-729.	2.2	18
41	Physiological Responses to Overdressing and Exercise-Heat Stress in Trained Runners. Medicine and Science in Sports and Exercise, 2018, 50, 1285-1296.	0.2	18
42	Basic statistical considerations for physiology: The journalTemperaturetoolbox. Temperature, 2019, 6, 181-210.	1.7	18
43	Neither body mass nor sex influences beverage hydration index outcomes during randomized trial when comparing 3 commercial beverages. American Journal of Clinical Nutrition, 2018, 107, 544-549.	2.2	17
44	Assessment of thermal dehydration using the human eye: What is the potential?. Journal of Thermal Biology, 2012, 37, 111-117.	1.1	14
45	The void in using urine concentration to assess population fluid intake adequacy or hydration status. American Journal of Clinical Nutrition, 2016, 104, 553-556.	2.2	14
46	A randomized trial to assess beverage hydration index in healthy older adults. American Journal of Clinical Nutrition, 2019, 109, 1640-1647.	2.2	14
47	Influence of prior illness on exertional heat stroke presentation and outcome. PLoS ONE, 2019, 14, e0221329.	1.1	12
48	Potential for dehydration to impact the athlete biological passport. Drug Testing and Analysis, 2020, 12, 1206-1211.	1.6	11
49	Personalized fluid and fuel intake for performance optimization in the heat. Journal of Science and Medicine in Sport, 2021, 24, 735-738.	0.6	10
50	Assessment of extracellular dehydration using saliva osmolality. European Journal of Applied Physiology, 2014, 114, 85-92.	1.2	9
51	Efficacy of Glucose or Amino Acidâ€“Based Commercial Beverages in Meeting Oral Rehydration Therapy Goals After Acute Hypertonic and Isotonic Dehydration. Journal of Parenteral and Enteral Nutrition, 2018, 42, 1185-1193.	1.3	9
52	Update: Efficacy of Military Fluid Intake Guidance. Military Medicine, 2018, 183, e338-e342.	0.4	9
53	Urinalysis for hydration assessment: an age-old problem. American Journal of Clinical Nutrition, 2016, 104, 3-4.	2.2	8
54	Body size and its implications upon resource utilization during human space exploration missions. Scientific Reports, 2020, 10, 13836.	1.6	7

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55	Osmolality of Commercially Available Oral Rehydration Solutions: Impact of Brand, Storage Time, and Temperature. Nutrients, 2019, 11, 1485.	1.7	5
56	Validation of a Mobile Application Water Planning Tool for Road Race Event Organizers. Medicine and Science in Sports and Exercise, 2019, 51, 1040-1046.	0.2	5
57	Importance of sample volume to the measurement and interpretation of plasma osmolality. Journal of Clinical Laboratory Analysis, 2019, 33, e22727.	0.9	5
58	Hypohydration Does Not Alter Standing Balance. Motor Control, 2013, 17, 190-202.	0.3	4
59	The accurate prediction of sweat rate from energy expenditure and air temperature: a proof-of-concept study. Applied Physiology, Nutrition and Metabolism, 2020, 45, 1299-1305.	0.9	4
60	Biological variation of arginine vasopressin. European Journal of Applied Physiology, 2020, 120, 635-642.	1.2	3
61	Predicted sweat rates for group water planning in sport: accuracy and application. Biology of Sport, 2021, 38, 253-260.	1.7	2
62	Comparison between blood and urinary indices for dehydration: a different interpretation. European Journal of Applied Physiology, 2013, 113, 2167-2168.	1.2	1
63	Considerations for Standardizing Fluid Station Practices Among Road Races. Strength and Conditioning Journal, 2020, 42, 39-44.	0.7	1
64	Differential responsiveness to heat shock protein (HSP) induction following heat acclimation. FASEB Journal, 2006, 20, A1247.	0.2	1
65	Personalized Hydration Requirements of Runners. International Journal of Sport Nutrition and Exercise Metabolism, 2022, 32, 233-237.	1.0	1
66	Are oral rehydration solutions optimized for treating diarrhea?. Nutrition and Health, 2021, 27, 026010602199164.	0.6	0
67	RELATIONSHIPS BETWEEN HEMODYNAMIC AND SYMPATHETIC NEURAL RESPONSES TO HEADâ€UP TILT DURING MODERATE DEHYDRATION IN HUMANS. FASEB Journal, 2017, 31, .	0.2	0