Karl E Friedl

List of Publications by Year
in descending order

124	5,305	101543	88630
papers	citations	36 h-index	70 g-index

129	129	129	4840
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition of Sex Hormone-Binding Globulin Production in the Human Hepatoma (Hep G2) Cell Line by Insulin and Prolactin*. Journal of Clinical Endocrinology and Metabolism, 1988, 67, 460-464.	3.6	644
2	Development of bioelectrical impedance analysis prediction equations for body composition with the use of a multicomponent model for use in epidemiologic surveys. American Journal of Clinical Nutrition, 2003, 77, 331-340.	4.7	536
3	Body composition estimates from NHANES III bioelectrical impedance data. International Journal of Obesity, 2002, 26, 1596-1609.	3.4	413
4	Endocrine markers of semistarvation in healthy lean men in a multistressor environment. Journal of Applied Physiology, 2000, 88, 1820-1830.	2.5	247
5	Physiological Consequences of U.S. Army Ranger Training. Medicine and Science in Sports and Exercise, 2007, 39, 1380-1387.	0.4	205
6	High-density lipoprotein cholesterol is not decreased if an aromatizable androgen is administered. Metabolism: Clinical and Experimental, 1990, 39, 69-74.	3.4	148
7	Reliability of body-fat estimations from a four-compartment model by using density, body water, and bone mineral measurements. American Journal of Clinical Nutrition, 1992, 55, 764-770.	4.7	141
8	Nanotechnology Research: Applications in Nutritional Sciences. Journal of Nutrition, 2010, 140, 119-124.	2.9	127
9	Physical Performance and Metabolic Recovery Among Lean, Healthy Men Following a Prolonged Energy Deficit. International Journal of Sports Medicine, 1997, 18, 317-324.	1.7	109
10	Military applications of soldier physiological monitoring. Journal of Science and Medicine in Sport, 2018, 21, 1147-1153.	1.3	109
11	Factors Associated with Stress Fracture in Young Army Women: Indications for Further Research. Military Medicine, 1992, 157, 334-338.	0.8	105
12	Body Composition and Military Performanceâ€"Many Things to Many People. Journal of Strength and Conditioning Research, 2012, 26, S87-S100.	2.1	91
13	The Administration of Pharmacological Doses of Testosterone or 19-Nortestosterone to Normal Men is Not Associated with Increased Insulin Secretion or Impaired Glucose Tolerance*. Journal of Clinical Endocrinology and Metabolism, 1989, 68, 971-975.	3.6	90
14	Perspectives on resilience for military readiness and preparedness: Report of an international military physiology roundtable. Journal of Science and Medicine in Sport, 2018, 21, 1116-1124.	1.3	85
15	Self-Reported Use of Anabolic-Androgenic Steroids by Elite Power Lifters. Physician and Sportsmedicine, 1988, 16, 91-100.	2.1	79
16	Negative energy balance in male and female rangers: effects of 7 d of sustained exercise and food deprivation. American Journal of Clinical Nutrition, 2006, 83, 1068-1075.	4.7	77
17	Military Risk Factors for Cognitive Decline, Dementia and Alzheimerâ€™s Disease. Current Alzheimer Research, 2013, 10, 907-930.	1.4	77
18	Comparison of the effects of high dose testosterone and 19-nortestosterone to a replacement dose of testosterone on strength and body composition in normal men. Journal of Steroid Biochemistry and Molecular Biology, 1991, 40, 607-iN6.	2.5	74

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19	Psychological and serum homovanillic acid changes in men administered androgenic steroids. Psychoneuroendocrinology, 1991, 16, 335-343.	2.7	72
20	Prevalence of Iron Deficiency and Iron Deficiency Anemia among Three Populations of Female Military Personnel in the US Army. Journal of the American College of Nutrition, 2006, 25, 64-69.	1.8	72
21	Perspectives on Aerobic and Strength Influences on Military Physical Readiness. Journal of Strength and Conditioning Research, 2015, 29, S10-S23.	2.1	66
22	What Engineering Technology Could Do for Quality of Life in Parkinson's Disease: A Review of Current Needs and Opportunities. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1862-1872.	6.3	66
23	Wearable physiological monitoring for human thermal-work strain optimization. Journal of Applied Physiology, 2018, 124, 432-441.	2.5	61
24	Impact of physical fitness and body composition on injury risk among active young adults: A study of Army trainees. Journal of Science and Medicine in Sport, 2017, 20, S17-S22.	1.3	60
25	Mathematical prediction of core body temperature from environment, activity, and clothing: The heat strain decision aid (HSDA). Journal of Thermal Biology, 2017, 64, 78-85.	2.5	54
26	Anabolic Steroid Use: Indications of Habituation among Adolescents. Journal of Drug Education, 1989, 19, 103-116.	0.8	52
27	Effects of traumatic brain injury and posttraumatic stress disorder on Alzheimer's disease in veterans, using the Alzheimer's Disease Neuroimaging Initiative. Alzheimer's and Dementia, 2014, 10, S226-35.	0.8	51
28	Dietary Reference Intakes for vitamin D: justification for a review of the 1997 values. American Journal of Clinical Nutrition, 2009, 89, 719-727.	4.7	50
29	Early Diagnosis of Spinal Metastases by CT and MR Studies. Journal of Computer Assisted Tomography, 1988, 12, 423-426.	0.9	47
30	Loss of muscle mass is poorly reflected in grip strength performance in healthy young men. Medicine and Science in Sports and Exercise, 1994, 26, 235-240.	0.4	46
31	Lifestyle and health-related risk factors and risk of cognitive aging among older veterans. , 2014, 10, S111-S121.		46
32	Effects of a 3-Month Endurance Event on Physical Performance and Body Composition: The G2 Trans-Greenland Expeditionâ˜†. Wilderness and Environmental Medicine, 2003, 14, 240-248.	0.9	44
33	Stress Fracture and Military Medical Readiness. Medicine and Science in Sports and Exercise, 2008, 40, S609-S622.	0.4	44
34	Evaluation of anthropometric equations to assess body-composition changes in young women. American Journal of Clinical Nutrition, 2001, 73, 268-275.	4.7	42
35	Can You Be Large and Not Obese? The Distinction Between Body Weight, Body Fat, and Abdominal Fat in Occupational Standards. Diabetes Technology and Therapeutics, 2004, 6, 732-749.	4.4	39
36	Regional fat placement in physically fit males and changes with weight loss. Medicine and Science in Sports and Exercise, 1996, 28, 786-793.	0.4	39

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37	Biomedical Research on Health and Performance of Military Women: Accomplishments of the Defense Women's Health Research Program (DWHRP). Journal of Women's Health, 2005, 14, 764-802.	3.3	36
38	Army research needs for automated neuropsychological tests: Monitoring soldier health and performance statusâˆ†. Archives of Clinical Neuropsychology, 2007, 22, 7-14.	0.5	36
39	A Lexicon of Assessment and Outcome Measures for Telemental Health. Telemedicine Journal and E-Health, 2014, 20, 282-292.	2.8	34
40	Body Fat Assessment in Women. Sports Medicine, 1992, 13, 245-269.	6.5	32
41	Clinical usefulness of an algorithm for the early diagnosis of spinal metastatic disease.. Journal of Clinical Oncology, 1988, 6, 154-157.	1.6	31
42	Effects of Military Deployment on Cognitive Functioning. Military Medicine, 2012, 177, 248-255.	0.8	29
43	Cognitive Change Associated with Selfâ€Reported Mild Traumatic Brain Injury Sustained During the OEF/OIF Conflicts. Clinical Neuropsychologist, 2012, 26, 473-489.	2.3	28
44	Emerging Wearable Physiological Monitoring Technologies and Decision Aids for Health and Performance. Journal of Applied Physiology, 2018, 124, 430-431.	2.5	28
45	A Longitudinal Study of Infections and Injuries of Ranger Students. Military Medicine, 1993, 158, 433-437.	0.8	27
46	Military Services Fitness Database: Development of a Computerized Physical Fitness and Weight Management Database for the U.S. Army. Military Medicine, 2009, 174, 001-008.	0.8	27
47	U.S. Army Research on Pharmacological Enhancement of Soldier Performance. Journal of Strength and Conditioning Research, 2015, 29, S71-S76.	2.1	26
48	Self-Treatment of Gynecomastia in Bodybuilders Who Use Anabolic Steroids. Physician and Sportsmedicine, 1989, 17, 67-79.	2.1	25
49	Body Fat Standards and Individual Physical Readiness in a Randomized Army Sample: Screening Weights, Methods of Fat Assessment, and Linkage to Physical Fitness. Military Medicine, 2002, 167, 994-1000.	0.8	25
50	Estimating Resting Core Temperature Using Heart Rate. Journal for the Measurement of Physical Behaviour, 2018, 1, 79-86.	0.8	25
51	Waist Circumference Threshold Values for Type 2 Diabetes Risk. Journal of Diabetes Science and Technology, 2009, 3, 761-769.	2.2	23
52	Neuropsychological Issues in Military Deployments: Lessons Observed in the DoD Gulf War Illnesses Research Program. Military Medicine, 2009, 174, 335-346.	0.8	22
53	Field studies of exercise and food deprivation. Current Opinion in Clinical Nutrition and Metabolic Care, 2006, 9, 685-690.	2.5	21
54	Elevation of Plasma Estradiol in Healthy Men During a Mountaineering Expedition. Hormone and Metabolic Research, 1988, 20, 239-242.	1.5	20

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55	DEVELOPMENT AND BIOMEDICAL TESTING OF MILITARY OPERATIONAL RATIONS. Annual Review of Nutrition, 1997, 17, 51-75.	10.1	20
56	Detecting Parkinsonâ€™s Disease from Wrist-Worn Accelerometry in the U.K. Biobank. Sensors, 2021, 21, 2047.	3.8	20
57	Atropine Absorption after Intramuscular Administration with 2-Pralidoxime Chloride by Two Automatic Injector Devices. Journal of Pharmaceutical Sciences, 1989, 78, 728-731.	3.3	18
58	Designing and Using Computer Simulations in Medical Education and Training: An Introduction. Military Medicine, 2013, 178, 1-6.	0.8	18
59	Transient reduction in serum HDL-cholesterol following medroxy-progesterone acetate and testosterone cypionate administration to healthy men. Contraception, 1985, 31, 409-420.	1.5	17
60	The Wearing Comfort and Acceptability of Ambulatory Physical Activity Monitoring Devices in Soldiers. IISE Transactions on Occupational Ergonomics and Human Factors, 2018, 6, 1-10.	0.8	17
61	A Standard Telemental Health Evaluation Model: The Time Is Now. Telemedicine Journal and E-Health, 2012, 18, 309-313.	2.8	16
62	Human performance research for military operations in extreme cold environments. Journal of Science and Medicine in Sport, 2021, 24, 954-962.	1.3	16
63	Report of an EUâ€“US Symposium on Understanding Nutrition-Related Consumer Behavior: Strategies to Promote a Lifetime of Healthy Food Choices. Journal of Nutrition Education and Behavior, 2014, 46, 445-450.	0.7	15
64	Validity of Percent Body Fat Predicted from Circumferences: Classification of Men for Weight Control Regulations. Military Medicine, 1997, 162, 194-200.	0.8	14
65	Use of bioelectrical impedance analysis measurements as predictors of physical performance. American Journal of Clinical Nutrition, 1996, 64, 463S-468S.	4.7	13
66	Human Performance Optimization: An Evolving Charge to the Department of Defense. Military Medicine, 2007, 172, 1133-1137.	0.8	13
67	The implications of emerging technology on military human performance research priorities. Journal of Science and Medicine in Sport, 2020, 24, 947-953.	1.3	13
68	Assessment of pubertal maturity in boys, using height and grip strength. Journal of Adolescent Health Care: Official Publication of the Society for Adolescent Medicine, 1990, 11, 497-500.	0.3	12
69	Corticosteroid Modulation of Tissue Responses to Implanted Sensors. Diabetes Technology and Therapeutics, 2004, 6, 898-901.	4.4	11
70	Analysis: Overcoming the "Valley of Death": Mouse Models to Accelerate Translational Research. Diabetes Technology and Therapeutics, 2006, 8, 413-414.	4.4	11
71	New Concerns About MilitaryÂRecruits with Metabolic Obesity but Normal Weight (â€œSkinny Fatâ€). Obesity, 2020, 28, 223-223.	3.0	11
72	The Effect of Proposed Improvements to the Army Weight Control Program on Female Soldiers. Military Medicine, 2006, 171, 800-805.	0.8	10

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73	The association between obesity related health risk and fitness test results in the British Army personnel. Journal of Science and Medicine in Sport, 2018, 21, 1173-1177.	1.3	10
74	Body mass does not reflect the body composition changes in response to similar physical training in young women and men. International Journal of Obesity, 2021, 45, 659-665.	3.4	10
75	Modeling the Metabolic Costs of Heavy Military Backpacking. Medicine and Science in Sports and Exercise, 2022, 54, 646-654.	0.4	10
76	Military human performance optimization and injury prevention: Strategies for the 21st century warfighter. Journal of Science and Medicine in Sport, 2017, 20, S1-S2.	1.3	9
77	Research requirements for operational decision-making using models of fatigue and performance. Aviation, Space, and Environmental Medicine, 2004, 75, A192-9.	0.5	9
78	Talk to the Hand: U.S. Army Biophysical Testing. Military Medicine, 2017, 182, e1702-e1705.	0.8	7
79	Circumference-Based Predictions of Body Fat Revisited: Preliminary Results From a US Marine Corps Body Composition Survey. Frontiers in Physiology, 2022, 13, 868627.	2.8	7
80	Validation of ambulatory monitoring devices to measure energy expenditure and heart rate in a military setting. Physiological Measurement, 2021, 42, 085008.	2.1	6
81	US Army basic combat training alters the relationship between body mass index and per cent body fat. BMJ Military Health, 2023, 169, 340-345.	0.9	5
82	Anabolic Steroids and Muscle Strength. Annals of Internal Medicine, 1992, 116, 270.	3.9	4
83	Reply to U Trippo et al. American Journal of Clinical Nutrition, 2004, 79, 336-337.	4.7	4
84	Introduction: Evolution of military and veterans brain health research. Alzheimer's and Dementia, 2014, 10, S94-6.	0.8	4
85	Soldier Health Habits and the Metabolically Optimized Brain. Military Medicine, 2016, 181, e1499-e1507.	0.8	4
86	Integrating women into ground close combat roles: an opportunity to reflect on universal paradigms of arduous training. BMJ Military Health, 2023, 169, 1-2.	0.9	4
87	Changes in energy balance, body composition, metabolic profile and physical performance in a 62-day Army Ranger training in a hot-humid environment. Journal of Science and Medicine in Sport, 2022, 25, 89-94.	1.3	4
88	Effect of eye color on heart rate response to intramuscular administration of atropine. Journal of the Autonomic Nervous System, 1988, 24, 51-56.	1.9	3
89	Analysis: Signs of Illness: When Will Technology Provide Greater Advantage Than the Practiced Eye of the Clinician (or the Military Commander)?. Diabetes Technology and Therapeutics, 2003, 5, 857-859.	4.4	3
90	Analysis: Insulin-Like Growth Factor-Iâ€"A Metabolic Marker Representing Quality of Life?. Diabetes Technology and Therapeutics, 2003, 5, 463-465.	4.4	3

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91	Analysis: Novel Biosensors for Long-Term In Vivo Physiological Monitoring. Diabetes Technology and Therapeutics, 2004, 6, 201-202.	4.4	3
92	Analysis: Optimizing Microneedles for Epidermal Access. Diabetes Technology and Therapeutics, 2005, 7, 546-548.	4.4	3
93	Promoting Innovation and Convergence in Military Medicine: Technology-Inspired Problem Solving. IEEE Circuits and Systems Magazine, 2012, 12, 14-29.	2.3	3
94	Analysis: The Promise of Lactic Acid Monitoring in Ambulatory Individuals. Diabetes Technology and Therapeutics, 2004, 6, 402-404.	4.4	2
95	Analysis: Mouse Models of Glucose Sensor Biocompatibility. Diabetes Technology and Therapeutics, 2005, 7, 738-740.	4.4	2
96	Size matters. American Journal of Clinical Nutrition, 2011, 93, 485-486.	4.7	2
97	Automated guidance from physiological sensing to reduce thermal-work strain levels on a novel task. , 2015, , .		2
98	Body fat standards and individual physical readiness in a randomized Army sample: screening weights, methods of fat assessment, and linkage to physical fitness. Military Medicine, 2002, 167, 994-1000.	0.8	2
99	Finding the right evidence: The role of evidence scans in the review of DRIs. Journal of Nutrition, 2022, 152, 1819-1822.	2.9	2
100	Transcutaneous oxygen monitoring in the emergency department. American Journal of Emergency Medicine, 1984, 2, 181-182.	1.6	1
101	The effect of relative humidity on osmoregulation in the squirrel monkey (Saimiri sciureus). Primates, 1986, 27, 465-470.	1.1	1
102	Actigraphy as Metabolic Ethography: Measuring Patterns of Physical Activity and Energy Expenditure. Diabetes Technology and Therapeutics, 2003, 5, 1035-1037.	4.4	1
103	Military Diabetes and Advanced Technologies Research. Diabetes Technology and Therapeutics, 2003, 5, 703-704.	4.4	1
104	Bioenergetics of Animal Locomotion: Lessons for Expedient Monitoring in Human Fitness and Weight Management. Diabetes Technology and Therapeutics, 2004, 6, 83-86.	4.4	1
105	Analysis: Biomedically Enabled Soldiers: Super-Resilient, Not Superhuman. Diabetes Technology and Therapeutics, 2006, 8, 123-125.	4.4	1
106	Digital soldiers: Transforming personalized health in challenging and changing environments. , 2009, , .		1
107	What can we learn from critical periods of weight gain in military personnel?. Obesity, 2016, 24, 1408-1409.	3.0	1
108	Non-pharmacological military performance enhancement technologies. Journal of Science and Medicine in Sport, 2017, 20, S93.	1.3	1

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109	Guest Editorial - 13th Body Sensor Networks Symposium. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 3-4.	6.3	1
110	Resilience and Survival in Extreme Environments. , 2008, , 139-176.		1
111	Correcting field measurements in outdoor walking research. Journal of Applied Physiology, 2022, 132, 313-314.	2.5	1
112	Effects of 20-?-Hydroxy-4-pregnen-3-one Treatment on the Hypophyseal Testicular Axis in Rats. Annals of the New York Academy of Sciences, 1984, 438, 615-617.	3.8	0
113	Maintenance of Spermatogenesis with Normal Germ-Cell Relationships in Testosterone-Treated Rhesus Monkeys. Annals of the New York Academy of Sciences, 1987, 513, 322-324.	3.8	0
114	Deadly defense?. Annals of Emergency Medicine, 1988, 17, 1367.	0.6	0
115	Technologies for Metabolic Monitoring (TMM): A New Research Initiative. Diabetes Technology and Therapeutics, 2002, 4, 539-541.	4.4	0
116	Analysis: Is It SAMI (Soldier Acceptable, Minimally Invasive) Yet?. Diabetes Technology and Therapeutics, 2006, 8, 253-255.	4.4	0
117	When Will Acupuncture Become a First-Line Treatment for Acute Pain Management?. Military Medicine, 2013, 178, 827-828.	0.8	0
118	RE: Does host energy metabolism moderate disease resistance?. Journal of Infection, 2018, 76, 211-212.	3.3	0
119	Changes in Body Composition during U.S. Army Basic Combat Training. Medicine and Science in Sports and Exercise, 2019, 51, 273-273.	0.4	0
120	A ration is not food until it is eaten: nutrition lessons learned from feeding soldiers. , 2020, , 127-146.		0
121	A ration is not food until it is eaten: nutrition lessons learned from feeding soldiers. , 2020, , 121-142.		0
122	Military Studies and Nutritional Immunology. , 2004, , 381-396.		0
123	Changes In Parameters Of Bone And Body Composition In Females Undergoing U.S. Army Basic Training. Medicine and Science in Sports and Exercise, 2005, 37, S90.	0.4	0
124	Assessment of Excess Weight and Fat in Army Weight Control Program Participants. Medicine and Science in Sports and Exercise, 2006, 38, S467-S468.	0.4	0