

Karl E Friedl

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

5,305
citations

116194

36
h-index

100535

70
g-index

129
all docs

129
docs citations

129
times ranked

5220
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating women into ground close combat roles: an opportunity to reflect on universal paradigms of arduous training. <i>BMJ Military Health</i> , 2023, 169, 1-2.	0.4	4
2	US Army basic combat training alters the relationship between body mass index and per cent body fat. <i>BMJ Military Health</i> , 2023, 169, 340-345.	0.4	5
3	Changes in energy balance, body composition, metabolic profile and physical performance in a 62-day Army Ranger training in a hot-humid environment. <i>Journal of Science and Medicine in Sport</i> , 2022, 25, 89-94.	0.6	4
4	Modeling the Metabolic Costs of Heavy Military Backpacking. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 646-654.	0.2	10
5	Correcting field measurements in outdoor walking research. <i>Journal of Applied Physiology</i> , 2022, 132, 313-314.	1.2	1
6	Circumference-Based Predictions of Body Fat Revisited: Preliminary Results From a US Marine Corps Body Composition Survey. <i>Frontiers in Physiology</i> , 2022, 13, 868627.	1.3	7
7	Finding the right evidence: The role of evidence scans in the review of DRIs. <i>Journal of Nutrition</i> , 2022, 152, 1819-1822.	1.3	2
8	Body mass does not reflect the body composition changes in response to similar physical training in young women and men. <i>International Journal of Obesity</i> , 2021, 45, 659-665.	1.6	10
9	Detecting Parkinson's Disease from Wrist-Worn Accelerometry in the U.K. Biobank. <i>Sensors</i> , 2021, 21, 2047.	2.1	20
10	Validation of ambulatory monitoring devices to measure energy expenditure and heart rate in a military setting. <i>Physiological Measurement</i> , 2021, 42, 085008.	1.2	6
11	Human performance research for military operations in extreme cold environments. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 954-962.	0.6	16
12	A ration is not food until it is eaten: nutrition lessons learned from feeding soldiers. , 2020, , 127-146.		0
13	A ration is not food until it is eaten: nutrition lessons learned from feeding soldiers. , 2020, , 121-142.		0
14	The implications of emerging technology on military human performance research priorities. <i>Journal of Science and Medicine in Sport</i> , 2020, 24, 947-953.	0.6	13
15	New Concerns About Military Recruits with Metabolic Obesity but Normal Weight (‘Skinny Fat’). <i>Obesity</i> , 2020, 28, 223-223.	1.5	11
16	Changes in Body Composition during U.S. Army Basic Combat Training. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 273-273.	0.2	0
17	Guest Editorial - 13th Body Sensor Networks Symposium. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 3-4.	3.9	1
18	The Wearing Comfort and Acceptability of Ambulatory Physical Activity Monitoring Devices in Soldiers. <i>IIEE Transactions on Occupational Ergonomics and Human Factors</i> , 2018, 6, 1-10.	0.5	17

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19	Emerging Wearable Physiological Monitoring Technologies and Decision Aids for Health and Performance. <i>Journal of Applied Physiology</i> , 2018, 124, 430-431.	1.2	28
20	RE: Does host energy metabolism moderate disease resistance?. <i>Journal of Infection</i> , 2018, 76, 211-212.	1.7	0
21	Wearable physiological monitoring for human thermal-work strain optimization. <i>Journal of Applied Physiology</i> , 2018, 124, 432-441.	1.2	61
22	Estimating Resting Core Temperature Using Heart Rate. <i>Journal for the Measurement of Physical Behaviour</i> , 2018, 1, 79-86.	0.5	25
23	The association between obesity related health risk and fitness test results in the British Army personnel. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 1173-1177.	0.6	10
24	Military applications of soldier physiological monitoring. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 1147-1153.	0.6	109
25	Perspectives on resilience for military readiness and preparedness: Report of an international military physiology roundtable. <i>Journal of Science and Medicine in Sport</i> , 2018, 21, 1116-1124.	0.6	85
26	Mathematical prediction of core body temperature from environment, activity, and clothing: The heat strain decision aid (HSDA). <i>Journal of Thermal Biology</i> , 2017, 64, 78-85.	1.1	54
27	Impact of physical fitness and body composition on injury risk among active young adults: A study of Army trainees. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, S17-S22.	0.6	60
28	Military human performance optimization and injury prevention: Strategies for the 21st century warfighter. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, S1-S2.	0.6	9
29	Talk to the Hand: U.S. Army Biophysical Testing. <i>Military Medicine</i> , 2017, 182, e1702-e1705.	0.4	7
30	Non-pharmacological military performance enhancement technologies. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, S93.	0.6	1
31	Soldier Health Habits and the Metabolically Optimized Brain. <i>Military Medicine</i> , 2016, 181, e1499-e1507.	0.4	4
32	What can we learn from critical periods of weight gain in military personnel?. <i>Obesity</i> , 2016, 24, 1408-1409.	1.5	1
33	U.S. Army Research on Pharmacological Enhancement of Soldier Performance. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, S71-S76.	1.0	26
34	Perspectives on Aerobic and Strength Influences on Military Physical Readiness. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, S10-S23.	1.0	66
35	Automated guidance from physiological sensing to reduce thermal-work strain levels on a novel task. , 2015, , .		2
36	What Engineering Technology Could Do for Quality of Life in Parkinson's Disease: A Review of Current Needs and Opportunities. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1862-1872.	3.9	66

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37	A Lexicon of Assessment and Outcome Measures for Telemental Health. <i>Telemedicine Journal and E-Health</i> , 2014, 20, 282-292.	1.6	34
38	Report of an EU-US Symposium on Understanding Nutrition-Related Consumer Behavior: Strategies to Promote a Lifetime of Healthy Food Choices. <i>Journal of Nutrition Education and Behavior</i> , 2014, 46, 445-450.	0.3	15
39	Introduction: Evolution of military and veterans brain health research. <i>Alzheimer's and Dementia</i> , 2014, 10, S94-6.	0.4	4
40	Lifestyle and health-related risk factors and risk of cognitive aging among older veterans. , 2014, 10, S111-S121.		46
41	Effects of traumatic brain injury and posttraumatic stress disorder on Alzheimer's disease in veterans, using the Alzheimer's Disease Neuroimaging Initiative. <i>Alzheimer's and Dementia</i> , 2014, 10, S226-35.	0.4	51
42	When Will Acupuncture Become a First-Line Treatment for Acute Pain Management?. <i>Military Medicine</i> , 2013, 178, 827-828.	0.4	0
43	Designing and Using Computer Simulations in Medical Education and Training: An Introduction. <i>Military Medicine</i> , 2013, 178, 1-6.	0.4	18
44	Military Risk Factors for Cognitive Decline, Dementia and Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2013, 10, 907-930.	0.7	77
45	A Standard Telemental Health Evaluation Model: The Time Is Now. <i>Telemedicine Journal and E-Health</i> , 2012, 18, 309-313.	1.6	16
46	Body Composition and Military Performance—Many Things to Many People. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, S87-S100.	1.0	91
47	Promoting Innovation and Convergence in Military Medicine: Technology-Inspired Problem Solving. <i>IEEE Circuits and Systems Magazine</i> , 2012, 12, 14-29.	2.6	3
48	Cognitive Change Associated with Self-Reported Mild Traumatic Brain Injury Sustained During the OEF/OIF Conflicts. <i>Clinical Neuropsychologist</i> , 2012, 26, 473-489.	1.5	28
49	Effects of Military Deployment on Cognitive Functioning. <i>Military Medicine</i> , 2012, 177, 248-255.	0.4	29
50	Size matters. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 485-486.	2.2	2
51	Nanotechnology Research: Applications in Nutritional Sciences. <i>Journal of Nutrition</i> , 2010, 140, 119-124.	1.3	127
52	Military Services Fitness Database: Development of a Computerized Physical Fitness and Weight Management Database for the U.S. Army. <i>Military Medicine</i> , 2009, 174, 001-008.	0.4	27
53	Neuropsychological Issues in Military Deployments: Lessons Observed in the DoD Gulf War Illnesses Research Program. <i>Military Medicine</i> , 2009, 174, 335-346.	0.4	22
54	Digital soldiers: Transforming personalized health in challenging and changing environments. , 2009, ,		1

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55	Waist Circumference Threshold Values for Type 2 Diabetes Risk. <i>Journal of Diabetes Science and Technology</i> , 2009, 3, 761-769.	1.3	23
56	Dietary Reference Intakes for vitamin D: justification for a review of the 1997 values. <i>American Journal of Clinical Nutrition</i> , 2009, 89, 719-727.	2.2	50
57	Stress Fracture and Military Medical Readiness. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S609-S622.	0.2	44
58	Resilience and Survival in Extreme Environments. , 2008, , 139-176.		1
59	Physiological Consequences of U.S. Army Ranger Training. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 1380-1387.	0.2	205
60	Army research needs for automated neuropsychological tests: Monitoring soldier health and performance status. <i>Archives of Clinical Neuropsychology</i> , 2007, 22, 7-14.	0.3	36
61	Human Performance Optimization: An Evolving Charge to the Department of Defense. <i>Military Medicine</i> , 2007, 172, 1133-1137.	0.4	13
62	Prevalence of Iron Deficiency and Iron Deficiency Anemia among Three Populations of Female Military Personnel in the US Army. <i>Journal of the American College of Nutrition</i> , 2006, 25, 64-69.	1.1	72
63	The Effect of Proposed Improvements to the Army Weight Control Program on Female Soldiers. <i>Military Medicine</i> , 2006, 171, 800-805.	0.4	10
64	Negative energy balance in male and female rangers: effects of 7 d of sustained exercise and food deprivation. <i>American Journal of Clinical Nutrition</i> , 2006, 83, 1068-1075.	2.2	77
65	Field studies of exercise and food deprivation. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2006, 9, 685-690.	1.3	21
66	Analysis: Biomedically Enabled Soldiers: Super-Resilient, Not Superhuman. <i>Diabetes Technology and Therapeutics</i> , 2006, 8, 123-125.	2.4	1
67	Analysis: Overcoming the "Valley of Death": Mouse Models to Accelerate Translational Research. <i>Diabetes Technology and Therapeutics</i> , 2006, 8, 413-414.	2.4	11
68	Analysis: Is It SAMI (Soldier Acceptable, Minimally Invasive) Yet?. <i>Diabetes Technology and Therapeutics</i> , 2006, 8, 253-255.	2.4	0
69	Assessment of Excess Weight and Fat in Army Weight Control Program Participants. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S467-S468.	0.2	0
70	Analysis: Optimizing Microneedles for Epidermal Access. <i>Diabetes Technology and Therapeutics</i> , 2005, 7, 546-548.	2.4	3
71	Biomedical Research on Health and Performance of Military Women: Accomplishments of the Defense Women's Health Research Program (DWHRP). <i>Journal of Women's Health</i> , 2005, 14, 764-802.	1.5	36
72	Analysis: Mouse Models of Glucose Sensor Biocompatibility. <i>Diabetes Technology and Therapeutics</i> , 2005, 7, 738-740.	2.4	2

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73	Changes In Parameters Of Bone And Body Composition In Females Undergoing U.S. Army Basic Training. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, S90.	0.2	0
74	Reply to U Trippo et al. <i>American Journal of Clinical Nutrition</i> , 2004, 79, 336-337.	2.2	4
75	Corticosteroid Modulation of Tissue Responses to Implanted Sensors. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 898-901.	2.4	11
76	Analysis: The Promise of Lactic Acid Monitoring in Ambulatory Individuals. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 402-404.	2.4	2
77	Analysis: Novel Biosensors for Long-Term In Vivo Physiological Monitoring. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 201-202.	2.4	3
78	Can You Be Large and Not Obese? The Distinction Between Body Weight, Body Fat, and Abdominal Fat in Occupational Standards. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 732-749.	2.4	39
79	Bioenergetics of Animal Locomotion: Lessons for Expedient Monitoring in Human Fitness and Weight Management. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 83-86.	2.4	1
80	<i>Military Studies and Nutritional Immunology</i> . , 2004, , 381-396.		0
81	Research requirements for operational decision-making using models of fatigue and performance. <i>Aviation, Space, and Environmental Medicine</i> , 2004, 75, A192-9.	0.6	9
82	Effects of a 3-Month Endurance Event on Physical Performance and Body Composition: The G2 Trans-Greenland Expedition. <i>Wilderness and Environmental Medicine</i> , 2003, 14, 240-248.	0.4	44
83	Actigraphy as Metabolic Ethography: Measuring Patterns of Physical Activity and Energy Expenditure. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 1035-1037.	2.4	1
84	Analysis: Signs of Illness: When Will Technology Provide Greater Advantage Than the Practiced Eye of the Clinician (or the Military Commander)?. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 857-859.	2.4	3
85	Military Diabetes and Advanced Technologies Research. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 703-704.	2.4	1
86	Analysis: Insulin-Like Growth Factor-1. A Metabolic Marker Representing Quality of Life?. <i>Diabetes Technology and Therapeutics</i> , 2003, 5, 463-465.	2.4	3
87	Development of bioelectrical impedance analysis prediction equations for body composition with the use of a multicomponent model for use in epidemiologic surveys. <i>American Journal of Clinical Nutrition</i> , 2003, 77, 331-340.	2.2	536
88	Technologies for Metabolic Monitoring (TMM): A New Research Initiative. <i>Diabetes Technology and Therapeutics</i> , 2002, 4, 539-541.	2.4	0
89	Body Fat Standards and Individual Physical Readiness in a Randomized Army Sample: Screening Weights, Methods of Fat Assessment, and Linkage to Physical Fitness. <i>Military Medicine</i> , 2002, 167, 994-1000.	0.4	25
90	Body composition estimates from NHANES III bioelectrical impedance data. <i>International Journal of Obesity</i> , 2002, 26, 1596-1609.	1.6	413

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91	Body fat standards and individual physical readiness in a randomized Army sample: screening weights, methods of fat assessment, and linkage to physical fitness. <i>Military Medicine</i> , 2002, 167, 994-1000.	0.4	2
92	Evaluation of anthropometric equations to assess body-composition changes in young women. <i>American Journal of Clinical Nutrition</i> , 2001, 73, 268-275.	2.2	42
93	Endocrine markers of semistarvation in healthy lean men in a multistressor environment. <i>Journal of Applied Physiology</i> , 2000, 88, 1820-1830.	1.2	247
94	Physical Performance and Metabolic Recovery Among Lean, Healthy Men Following a Prolonged Energy Deficit. <i>International Journal of Sports Medicine</i> , 1997, 18, 317-324.	0.8	109
95	DEVELOPMENT AND BIOMEDICAL TESTING OF MILITARY OPERATIONAL RATIONS. <i>Annual Review of Nutrition</i> , 1997, 17, 51-75.	4.3	20
96	Validity of Percent Body Fat Predicted from Circumferences: Classification of Men for Weight Control Regulations. <i>Military Medicine</i> , 1997, 162, 194-200.	0.4	14
97	Use of bioelectrical impedance analysis measurements as predictors of physical performance. <i>American Journal of Clinical Nutrition</i> , 1996, 64, 463S-468S.	2.2	13
98	Regional fat placement in physically fit males and changes with weight loss. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 786-793.	0.2	39
99	Loss of muscle mass is poorly reflected in grip strength performance in healthy young men. <i>Medicine and Science in Sports and Exercise</i> , 1994, 26, 235-240.	0.2	46
100	A Longitudinal Study of Infections and Injuries of Ranger Students. <i>Military Medicine</i> , 1993, 158, 433-437.	0.4	27
101	Body Fat Assessment in Women. <i>Sports Medicine</i> , 1992, 13, 245-269.	3.1	32
102	Anabolic Steroids and Muscle Strength. <i>Annals of Internal Medicine</i> , 1992, 116, 270.	2.0	4
103	Factors Associated with Stress Fracture in Young Army Women: Indications for Further Research. <i>Military Medicine</i> , 1992, 157, 334-338.	0.4	105
104	Reliability of body-fat estimations from a four-compartment model by using density, body water, and bone mineral measurements. <i>American Journal of Clinical Nutrition</i> , 1992, 55, 764-770.	2.2	141
105	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. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 1991, 40, 607-616.	1.2	74
106	Psychological and serum homovanillic acid changes in men administered androgenic steroids. <i>Psychoneuroendocrinology</i> , 1991, 16, 335-343.	1.3	72
107	Assessment of pubertal maturity in boys, using height and grip strength. <i>Journal of Adolescent Health Care: Official Publication of the Society for Adolescent Medicine</i> , 1990, 11, 497-500.	0.3	12
108	High-density lipoprotein cholesterol is not decreased if an aromatizable androgen is administered. <i>Metabolism: Clinical and Experimental</i> , 1990, 39, 69-74.	1.5	148

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109	Atropine Absorption after Intramuscular Administration with 2-Pralidoxime Chloride by Two Automatic Injector Devices. <i>Journal of Pharmaceutical Sciences</i> , 1989, 78, 728-731.	1.6	18
110	The Administration of Pharmacological Doses of Testosterone or 19-Nortestosterone to Normal Men is Not Associated with Increased Insulin Secretion or Impaired Glucose Tolerance*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1989, 68, 971-975.	1.8	90
111	Anabolic Steroid Use: Indications of Habituation among Adolescents. <i>Journal of Drug Education</i> , 1989, 19, 103-116.	0.1	52
112	Self-Treatment of Gynecomastia in Bodybuilders Who Use Anabolic Steroids. <i>Physician and Sportsmedicine</i> , 1989, 17, 67-79.	1.0	25
113	Deadly defense?. <i>Annals of Emergency Medicine</i> , 1988, 17, 1367.	0.3	0
114	Effect of eye color on heart rate response to intramuscular administration of atropine. <i>Journal of the Autonomic Nervous System</i> , 1988, 24, 51-56.	1.9	3
115	Inhibition of Sex Hormone-Binding Globulin Production in the Human Hepatoma (Hep G2) Cell Line by Insulin and Prolactin*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1988, 67, 460-464.	1.8	644
116	Elevation of Plasma Estradiol in Healthy Men During a Mountaineering Expedition. <i>Hormone and Metabolic Research</i> , 1988, 20, 239-242.	0.7	20
117	Self-Reported Use of Anabolic-Androgenic Steroids by Elite Power Lifters. <i>Physician and Sportsmedicine</i> , 1988, 16, 91-100.	1.0	79
118	Clinical usefulness of an algorithm for the early diagnosis of spinal metastatic disease.. <i>Journal of Clinical Oncology</i> , 1988, 6, 154-157.	0.8	31
119	Early Diagnosis of Spinal Metastases by CT and MR Studies. <i>Journal of Computer Assisted Tomography</i> , 1988, 12, 423-426.	0.5	47
120	Maintenance of Spermatogenesis with Normal Germ-Cell Relationships in Testosterone-Treated Rhesus Monkeys. <i>Annals of the New York Academy of Sciences</i> , 1987, 513, 322-324.	1.8	0
121	The effect of relative humidity on osmoregulation in the squirrel monkey (<i>Saimiri sciureus</i>). <i>Primates</i> , 1986, 27, 465-470.	0.7	1
122	Transient reduction in serum HDL-cholesterol following medroxy-progesterone acetate and testosterone cypionate administration to healthy men. <i>Contraception</i> , 1985, 31, 409-420.	0.8	17
123	Effects of 20-?-Hydroxy-4-pregnen-3-one Treatment on the Hypophyseal Testicular Axis in Rats. <i>Annals of the New York Academy of Sciences</i> , 1984, 438, 615-617.	1.8	0
124	Transcutaneous oxygen monitoring in the emergency department. <i>American Journal of Emergency Medicine</i> , 1984, 2, 181-182.	0.7	1