Alan M Batterham

List of Publications by Year
in descending order

130 papers	13,728 citations	66343 42 h-index	21540 114 g-index
133 all docs	133 docs citations	133 times ranked	11515 citing authors

#	Article	IF	Citations
1	Progressive Statistics for Studies in Sports Medicine and Exercise Science. Medicine and Science in Sports and Exercise, 2009, 41, 3-12.	0.4	6,083
2	Making Meaningful Inferences About Magnitudes. International Journal of Sports Physiology and Performance, 2006, 1, 50-57.	2.3	1,559
3	Making meaningful inferences about magnitudes. International Journal of Sports Physiology and Performance, 2006, 1, 50-7.	2.3	524
4	Trends in maternal obesity incidence rates, demographic predictors, and health inequalities in 36 821 women over a 15-year period. BJOG: an International Journal of Obstetrics and Gynaecology, 2007, 114, 187-194.	2.3	294
5	Effects of Low-Volume High-Intensity Interval Training (HIT) on Fitness in Adults: A Meta-Analysis of Controlled and Non-Controlled Trials. Sports Medicine, 2014, 44, 1005-1017.	6.5	270
6	High-intensity interval exercise training for public health: a big HIT or shall we HIT it on the head?. International Journal of Behavioral Nutrition and Physical Activity, 2015, 12, 95.	4.6	236
7	True and false interindividual differences in the physiological response to an intervention. Experimental Physiology, 2015, 100, 577-588.	2.0	212
8	Prediction of whole-body fat percentage and visceral adipose tissue mass from five anthropometric variables. PLoS ONE, 2017, 12, e0177175.	2.5	192
9	Allometric scaling of diameter change in the original flow-mediated dilation protocol. Atherosclerosis, 2013, 226, 425-427.	0.8	178
10	Lifestyle factors and colorectal cancer risk (2): a systematic review and metaâ€analysis of associations with leisureâ€time physical activity. Colorectal Disease, 2009, 11, 689-701.	1.4	177
11	A new approach to improve the specificity of flow-mediated dilation for indicating endothelial function in cardiovascular research. Journal of Hypertension, 2013, 31, 287-291.	0.5	162
12	Analgesic Efficacy of High-Frequency Spinal Cord Stimulation: A Randomized Double-Blind Placebo-Controlled Study. Neuromodulation, 2013, 16, 363-369.	0.8	153
13	The Right Ventricle of the Endurance Athlete: The Relationship between Morphology and Deformation. Journal of the American Society of Echocardiography, 2012, 25, 263-271.	2.8	140
14	Elite Sprinting. Medicine and Science in Sports and Exercise, 2011, 43, 1055-1062.	0.4	111
15	Can we use digital life-log images to investigate active and sedentary travel behaviour? Results from a pilot study. International Journal of Behavioral Nutrition and Physical Activity, 2011, 8, 44.	4.6	110
16	Assessment of Low-to-Moderate Intensity Physical Activity Thermogenesis in Young Adults Using Synchronized Heart Rate and Accelerometry with Branched-Equation Modeling ,. Journal of Nutrition, 2006, 136, 1037-1042.	2.9	103
17	Reliability of maximal strength testing in older adults. Archives of Physical Medicine and Rehabilitation, 2004, 85, 329-334.	0.9	97
18	The percentage flow-mediated dilation index: A large-sample investigation of its appropriateness, potential for bias and causal nexus in vascular medicine. Vascular Medicine, 2013, 18, 354-365.	1.5	97

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19	Is the ratio of flow-mediated dilation and shear rate a statistically sound approach to normalization in cross-sectional studies on endothelial function?. Journal of Applied Physiology, 2009, 107, 1893-1899.	2.5	91
20	A higher effort-based paradigm in physical activity and exercise for public health: making the case for a greater emphasis on resistance training. BMC Public Health, 2017, 17, 300.	2.9	88
21	Peak power output, the lactate threshold, and time trial performance in cyclists. Medicine and Science in Sports and Exercise, 2001, 33, 2077-2081.	0.4	87
22	Reliability in evidence-based clinical practice: a primer for allied health professionalsâ˜†. Physical Therapy in Sport, 2003, 4, 122-128.	1.9	84
23	How big does my sample need to be? A primer on the murky world of sample size estimation. Physical Therapy in Sport, 2005, 6, 153-163.	1.9	83
24	Allometric modeling does not determine a dimensionless power function ratio for maximal muscular function. Journal of Applied Physiology, 1997, 83, 2158-2166.	2.5	82
25	Multidimensional Physical Activity. Exercise and Sport Sciences Reviews, 2015, 43, 67-74.	3.0	80
26	The development and evaluation of a novel computer program to assess previous-day dietary and physical activity behaviours in school children: The Synchronised Nutrition and Activity Program^{TM}(SNAP^{TM}). British Journal of Nutrition, 2008, 99, 1266-1274.	2.3	77
27	Issues in the determination of â€˜respondersâ€™ and â€˜nonâ€responders â€™ in physiological research. Experimental Physiology, 2019, 104, 1215-1225.	2.0	77
28	Error Rates, Decisive Outcomes and Publication Bias with Several Inferential Methods. Sports Medicine, 2016, 46, 1563-1573.	6.5	73
29	Inter-Individual Responses of Maximal Oxygen Uptake to Exercise Training: A Critical Review. Sports Medicine, 2017, 47, 1501-1513.	6.5	70
30	Allometric scaling of left ventricular mass by body dimensions in males and females. Medicine and Science in Sports and Exercise, 1997, 29, 181-186.	0.4	69
31	Modeling the influence of body size onVË™<scp>o</scp>_{2 peak}: effects of model choice and body composition. Journal of Applied Physiology, 1999, 87, 1317-1325.	2.5	64
32	Mathematical coupling causes spurious correlation within the conventional acute-to-chronic workload ratio calculations. British Journal of Sports Medicine, 2019, 53, 921-922.	6.7	63
33	Scaling of maximal oxygen uptake by lower leg muscle volume in boys and men. Journal of Applied Physiology, 2006, 100, 1851-1856.	2.5	58
34	Evaluating Intervention Fidelity: An Example from a High-Intensity Interval Training Study. PLoS ONE, 2015, 10, e0125166.	2.5	58
35	Evaluating the Feasibility of Measuring Travel to School Using a Wearable Camera. American Journal of Preventive Medicine, 2012, 43, 546-550.	3.0	56
36	Validation of the Wilks powerlifting formula. Medicine and Science in Sports and Exercise, 1999, 31, 1869.	0.4	55

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37	Effect of Novel, School-Based High-Intensity Interval Training (HIT) on Cardiometabolic Health in Adolescents: Project FFAB (Fun Fast Activity Blasts) - An Exploratory Controlled Before-And-After Trial. PLoS ONE, 2016, 11, e0159116.	2.5	54
38	Exercise training induced alterations in prepubertal children's lipid-lipoprotein profile. Medicine and Science in Sports and Exercise, 1998, 30, 1684-1692.	0.4	52
39	Maturational effect on Functional Movement Screenâ„¢ score in adolescent soccer players. Journal of Science and Medicine in Sport, 2016, 19, 854-858.	1.3	49
40	Reduction in Physical Match Performance at the Start of the Second Half in Elite Soccer. International Journal of Sports Physiology and Performance, 2011, 6, 174-182.	2.3	47
41	Ziconotide Monotherapy: A Systematic Review of Randomised Controlled Trials. Current Neuropharmacology, 2017, 15, 217-231.	2.9	47
42	Longitudinal plane colour tissue-Doppler myocardial velocities and their association with left ventricular length, volume, and mass in humans. European Journal of Echocardiography, 2008, 9, 542-546.	2.3	46
43	Interpretation of two-dimensional and tissue Doppler-derived strain (Â) and strain rate data: is there a need to normalize for individual variability in left ventricular morphology?. European Journal of Echocardiography, 2009, 10, 677-682.	2.3	41
44	Confusion and Conflict in Assessing the Physical Activity Status of Middle-Aged Men. PLoS ONE, 2009, 4, e4337.	2.5	40
45	Size Exponents for Scaling Maximal Oxygen Uptake in Over 6500 Humans: A Systematic Review and Meta-Analysis. Sports Medicine, 2017, 47, 1405-1419.	6.5	40
46	A comprehensive allometric analysis of 2nd digit length to 4th digit length in humans. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170356.	2.6	39
47	Towards Integrated Physical Activity Profiling. PLoS ONE, 2013, 8, e56427.	2.5	38
48	Reliability in evidence-based clinical practice: a primer for allied health professionals. Physical Therapy in Sport, 2000, 1, 54-62.	1.9	37
49	Commentary: Why sprint interval training is inappropriate for a largely sedentary population. Frontiers in Psychology, 2015, 6, 1999.	2.1	37
50	Feedback from physical activity monitors is not compatible with current recommendations: A recalibration study. Preventive Medicine, 2016, 91, 389-394.	3.4	37
51	The acute-to-chronic workload ratio: an inaccurate scaling index for an unnecessary normalisation process?. British Journal of Sports Medicine, 2019, 53, 1510-1512.	6.7	37
52	Selection of endurance capabilities and the trade-off between pressure and volume in the evolution of the human heart. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19905-19910.	7.1	37
53	Gait Retraining and Incidence of Medial Tibial Stress Syndrome in Army Recruits. Medicine and Science in Sports and Exercise, 2014, 46, 1684-1692.	0.4	35
54	Nevill's explanation of Kleiber's 0.75 mass exponent: an artifact of collinearity problems in least squares models?. Journal of Applied Physiology, 1997, 82, 693-697.	2.5	32

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55	Echocardiographic evidence of concentric left ventricular enlargement in female weight lifters. European Journal of Applied Physiology, 1998, 79, 88-92.	2.5	30
56	Scaling Behavior of &OV0312;O2peak in Trained Wheelchair Athletes. Medicine and Science in Sports and Exercise, 2003, 35, 2106-2111.	0.4	30
57	Behavioural intervention for weight loss maintenance versus standard weight advice in adults with obesity: A randomised controlled trial in the UK (NULevel Trial). PLoS Medicine, 2019, 16, e1002793.	8.4	29
58	Bolus Intrathecal Injection of Ziconotide (PrialtÂ®) to Evaluate the Option of Continuous Administration via an Implanted Intrathecal Drug Delivery (ITDD) System: A Pilot Study. Neuromodulation, 2013, 16, 576-582.	0.8	28
59	High-intensity interval exercise training before abdominal aortic aneurysm repair (HIT-AAA): protocol for a randomised controlled feasibility trial. BMJ Open, 2014, 4, e004094.	1.9	28
60	Scaling of Peak Oxygen Uptake in Children. Medicine and Science in Sports and Exercise, 2013, 45, 2341-2345.	0.4	27
61	Validity of the allometric cascade model at submaximal and maximal metabolic rates in exercising men. Respiratory Physiology and Neurobiology, 2003, 135, 103-106.	1.6	26
62	The NULevel trial of a scalable, technology-assisted weight loss maintenance intervention for obese adults after clinically significant weight loss: study protocol for a randomised controlled trial. Trials, 2015, 16, 421.	1.6	26
63	Effects of Flow Rate Modifications on Reported Analgesia and Quality of Life in Chronic Pain Patients Treated with Continuous Intrathecal Drug Therapy. Pain Medicine, 2011, 12, 571-576.	1.9	25
64	Age- and sex-specific reference intervals for visceral fat mass in adults. International Journal of Obesity, 2020, 44, 289-296.	3.4	25
65	Short- and long-term reliability of leg extensor power measurement in middle-aged and older adults. Journal of Sports Sciences, 2018, 36, 970-977.	2.0	24
66	The impact of scalar variable and process on athlete-control comparisons of cardiac dimensions. Medicine and Science in Sports and Exercise, 1998, 30, 824-830.	0.4	24
67	Validity in clinical research: a review of basic concepts and definitions. Physical Therapy in Sport, 2000, 1, 19-27.	1.9	23
68	A randomized controlled trial of pharmacist-led therapeutic carbohydrate and energy restriction in type 2 diabetes. Nature Communications, 2021, 12, 5367.	12.8	23
69	Allometry of Anaerobic Performance: A Gender Comparison. Applied Physiology, Nutrition, and Metabolism, 1996, 21, 48-62.	1.7	22
70	Effect of a 9-Wk. after-School Multiskills Club on Fundamental Movement Skill Proficiency in 8- to 9-Yr.-Old Children: An Exploratory Trial. Perceptual and Motor Skills, 2008, 106, 745-754.	1.3	22
71	Multidimensional individualised Physical ACTivity (Mi-PACT) â€“ a technology-enabled intervention to promote physical activity in primary care: study protocol for a randomised controlled trial. Trials, 2015, 16, 381.	1.6	22
72	Peak Oxygen Uptake in Chronic Fatigue Syndrome/Myalgic Encephalomyelitis: A Meta-Analysis. International Journal of Sports Medicine, 2019, 40, 77-87.	1.7	22

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73	Appropriate within-subjects statistical models for the analysis of baroreflex sensitivity. Clinical Physiology and Functional Imaging, 2011, 31, 80-82.	1.2	21
74	Effect of Diet or Diet Plus Physical Activity Versus Usual Care on Inflammatory Markers in Patients with Newly Diagnosed Type 2 Diabetes: The Early ACTivity In Diabetes (ACTID) Randomized, Controlled Trial. Journal of the American Heart Association, 2014, 3, e000828.	3.7	21
75	The Clinical Relevance of the Percentage Flow-Mediated Dilation Index. Current Hypertension Reports, 2015, 17, 4.	3.5	21
76	Patients Awaiting Surgical Repair for Large Abdominal Aortic Aneurysms Can Exercise at Moderate to Hard Intensities with a Low Risk of Adverse Events. Frontiers in Physiology, 2016, 7, 684.	2.8	21
77	The Case for Magnitude-based Inference. Medicine and Science in Sports and Exercise, 2015, 47, 885.	0.4	20
78	Group- and individual-level coincidence of the â€˜Fatmaxâ€™ and lactate accumulation in adolescents. European Journal of Applied Physiology, 2010, 109, 1145-1153.	2.5	18
79	A community-based health promotion intervention using brief negotiation techniques and a pledge on dietary intake, physical activity levels and weight outcomes: lessons learnt from an exploratory trial. Public Health Nutrition, 2012, 15, 1446-1455.	2.2	18
80	Modeling the influence of body size and composition on M-mode echocardiographic dimensions. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H701-H708.	3.2	17
81	Assessment of Bias in Comparing Measurements: A Reliability Example. Measurement in Physical Education and Exercise Science, 1999, 3, 195-205.	1.8	17
82	The reproducibility of estimates of critical power and anaerobic work capacity in upper-body exercise. European Journal of Applied Physiology, 2002, 87, 43-49.	2.5	16
83	Validity in clinical research: a review of basic concepts and definitionsâ˜†. Physical Therapy in Sport, 2003, 4, 115-121.	1.9	16
84	Displacing Sedentary Time. Medicine and Science in Sports and Exercise, 2016, 48, 641-647.	0.4	16
85	Exercise training response heterogeneity: statistical insights. Diabetologia, 2018, 61, 496-497.	6.3	16
86	The STOP-Bang Questionnaire as a Screening Tool for Obstructive Sleep Apnea in Pregnancy. Journal of Clinical Sleep Medicine, 2019, 15, 705-710.	2.6	16
87	From animal cage to aircraft cabin: an overview of evidence translation in jet lag research. European Journal of Applied Physiology, 2014, 114, 2459-2468.	2.5	15
88	The Problems with â€œThe Problem with â€˜Magnitude-Based Inferenceâ€™â€•. Medicine and Science in Sports and Exercise, 2019, 51, 599-599.	0.4	15
89	The impact of scalar variable and process on athlete-control comparisons of cardiac dimensions. Medicine and Science in Sports and Exercise, 1998, 30, 824-830.	0.4	15
90	Effect of novel technology-enabled multidimensional physical activity feedback in primary care patients at risk of chronic disease â€“ the MIPACT study: a randomised controlled trial. International Journal of Behavioral Nutrition and Physical Activity, 2020, 17, 99.	4.6	14

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91	Prognostic Models in Adults Undergoing Physical Therapy for Rotator Cuff Disorders: Systematic Review. Physical Therapy, 2016, 96, 961-971.	2.4	13
92	The effect of a curriculum-based physical activity intervention on accelerometer-assessed physical activity in schoolchildren: A non-randomised mixed methods controlled before-and-after study. PLoS ONE, 2019, 14, e0225997.	2.5	13
93	Analgesic Efficacy of â€œBurstâ€•and Tonic (500 Hz) Spinal Cord Stimulation Patterns: A Randomized Placebo-Controlled Crossover Study. Neuromodulation, 2021, 24, 471-478.	0.8	13
94	Stability of questionnaire items in sport and exercise psychology: Bootstrap limits of agreement. Journal of Sports Sciences, 1999, 17, 725-734.	2.0	12
95	Teesside Schools Health Study: Body mass index surveillance in special needs and mainstream school children. Public Health, 2008, 122, 251-254.	2.9	12
96	The development and evaluation of a novel Internet-based computer program to assess previous-day dietary and physical activity behaviours in adults: the Synchronised Nutrition and Activity Program for Adults (SNAPAâ„¢). British Journal of Nutrition, 2012, 107, 1221-1231.	2.3	12
97	The association between displacement of sedentary time and chronic musculoskeletal pain: an isotemporal substitution analysis. Physiotherapy, 2017, 103, 471-477.	0.4	11
98	Blood pressure regulation VII. The â€œmorning surgeâ€•in blood pressure: measurement issues and clinical significance. European Journal of Applied Physiology, 2014, 114, 521-529.	2.5	10
99	The reliability and validity of the â€˜Tapeâ€™ and â€˜Blockâ€™ methods for assessing anatomical leg-length discrepancy. Physical Therapy in Sport, 2000, 1, 91-99.	1.9	9
100	Association of psychological flexibility with engagement in pulmonary rehabilitation following an acute exacerbation of chronic obstructive pulmonary disease. Chronic Respiratory Disease, 2019, 16, 147997311988089.	2.4	9
101	Growth of Left Ventricular Mass with Military Basic Training in Army Recruits. Medicine and Science in Sports and Exercise, 2011, 43, 1295-1300.	0.4	7
102	Emergence of Large Treatment Effects From Small Trials. JAMA - Journal of the American Medical Association, 2013, 309, 768.	7.4	7
103	The Impact of Random Individual Differences in Weight Change on the Measurable Objectives of Lifestyle Weight Management Services. Sports Medicine, 2017, 47, 1683-1688.	6.5	7
104	Supporting the transition from weight loss to maintenance: development and optimisation of a face-to-face behavioural intervention component. Health Psychology and Behavioral Medicine, 2017, 5, 66-84.	1.8	6
105	Comparison of the Effects of Intermittent Boluses to Simple Continuous Infusion on Patientsâ€™ Global Perceived Effect in Intrathecal Therapy for Pain: A Randomized Double-Blind Crossover Study. Pain Medicine, 2017, 18, pnw229.	1.9	5
106	An Imaginary Bayesian Monster. International Journal of Sports Physiology and Performance, 2008, 3, 411-412.	2.3	4
107	Statistical perspectives: all together NOT. Experimental Physiology, 2011, 96, 1321-1323.	2.0	4
108	Statistical Perspectives: All Together NOT. Microcirculation, 2011, 18, 677-679.	1.8	4

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109	Statistical perspectives: all together NOT. Journal of Physiology, 2011, 589, 5327-5329.	2.9	4
110	When will the most important confounder of percentage flow-mediated dilation be reported and adjusted for at the study level?. International Journal of Cardiology, 2014, 172, 261-262.	1.7	4
111	Baseline Artery Diameter: The Hidden Confounder in Research Syntheses on Human Endothelial Function?. Heart Lung and Circulation, 2014, 23, 98-99.	0.4	4
112	So what does this all mean?. Physical Therapy in Sport, 2015, 16, 1-2.	1.9	3
113	Ejection fraction as a statistical index of left ventricular systolic function: the first full allometric scrutiny of its appropriateness and accuracy. Clinical Physiology and Functional Imaging, 2018, 38, 976-985.	1.2	3
114	Process Evaluation of Project FFAB (Fun Fast Activity Blasts): A Multi-Activity School-Based High-Intensity Interval Training Intervention. Frontiers in Sports and Active Living, 2021, 3, 737900.	1.8	3
115	Clinically Relevant?. Clinical Journal of Sport Medicine, 2002, 12, 328-330.	1.8	2
116	Statistical perspectives: all together NOT. British Journal of Pharmacology, 2012, 165, 782-784.	5.4	2
117	Response to â€œAdjusting for brachial artery diameter in the analysis of flow-mediated dilatation: Pitfalls of a landmark paper?â€• Atherosclerosis, 2013, 228, 282-283.	0.8	2
118	Brachial artery diameter, but not flow-mediated dilation, is associated with sleep apnoea in the Multiethnic Study of Atherosclerosis. Journal of Hypertension, 2016, 34, 410-413.	0.5	2
119	Comments on â€œPredictors of Change in Physical Function in Older Adults in Response to Long-Term, Structured Physical Activity: The LIFE Studyâ€• Archives of Physical Medicine and Rehabilitation, 2018, 99, 408.	0.9	2
120	Pharmacist-led therapeutic carbohydrate restriction as a treatment strategy for type 2 diabetes: the Pharm-TCR randomized controlled trial protocol. Trials, 2019, 20, 781.	1.6	2
121	Variability in the Study Quality Appraisals Reported in Systematic Reviews on the Acute:Chronic Workload Ratio and Injury Risk. Sports Medicine, 2020, 50, 2065-2067.	6.5	2
122	Statistical Perspectives: All Together NOT. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 914-916.	1.9	1
123	Correct allometric analysis is always helpful for scaling flowâ€mediated dilation in research and individual patient contexts. Clinical Physiology and Functional Imaging, 2018, 38, 907-910.	1.2	1
124	Is the intervention as good as (or not substantially worse than) a comparator?. Experimental Physiology, 2022, 107, 199-200.	2.0	1
125	Reply to Stoner et al. regarding â€˜A new approach to improve the specificity of flow-mediated dilation for indicating endothelial function in cardiovascular researchâ€™. Journal of Hypertension, 2013, 31, 1058.	0.5	0
126	Response to: â€˜Allometric scaling of endothelium-dependent vasodilation: Brachial artery flow-mediated dilation coming of ageâ€™. Vascular Medicine, 2014, 19, 142-143.	1.5	0

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127	Response. Exercise and Sport Sciences Reviews, 2015, 43, 239.	3.0	0
128	Presence of a high-flow-mediated constriction phenomenon prior to flow-mediated dilatation in normal weight, overweight, and obese children and adolescents. Journal of Clinical Ultrasound, 2016, 44, 446-447.	0.8	0
129	The association between recently diagnosed cancer and incidence of falling in older adults: An exploratory study. Physiotherapy Practice and Research, 2021, 42, 185-193.	0.1	0
130	REPLY TO BAKER AND DAVIES. Journal of Applied Physiology, 2006, 101, 1535-1535.	2.5	0