

# Grant Ryan Tomkinson

List of Publications by Year  
in descending order

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Version: 2024-02-01

109  
papers

4,876  
citations

159525  
30  
h-index

110317  
64  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal Trends in the Physical Fitness of Hong Kong Adolescents Between 1998 and 2015. International Journal of Sports Medicine, 2023, 44, 728-735.	0.8	6
2	The relationship between digit ratio ( $2D:4D$ ) and muscular fitness: A systematic review and meta-analysis. American Journal of Human Biology, 2022, 34, e23657.	0.8	13
3	How Should Adult Handgrip Strength Be Normalized? Allometry Reveals New Insights and Associated Reference Curves. Medicine and Science in Sports and Exercise, 2022, 54, 162-168.	0.2	24
4	Health-Related Criterion-Referenced Cut-Points for Cardiorespiratory Fitness Among Youth: A Systematic Review. Sports Medicine, 2022, 52, 101-122.	3.1	13
5	The relationship between the digit ratio ( $2D:4D$ ) and vertical jump performance in young athletes. American Journal of Human Biology, 2022, 34, e23679.	0.8	3
6	Player Profiling and Monitoring in Basketball: A Delphi Study of the Most Important Non-Game Performance Indicators from the Perspective of Elite Athlete Coaches. Sports Medicine, 2022, 52, 1175-1187.	3.1	10
7	What is the optimal anthropometric index/ratio associated with two key measures of cardio-metabolic risk associated with hypertension and diabetes?. International Journal of Obesity, 2022, , .	1.6	1
8	Japanese physical fitness surveillance: a greater need for international publications that utilize the world's best physical fitness database. The Journal of Physical Fitness and Sports Medicine, 2022, 11, 161-167.	0.2	8
9	Handgrip strength asymmetry is associated with slow gait speed and poorer standing balance in older Americans. Archives of Gerontology and Geriatrics, 2022, 102, 104716.	1.4	15
10	Reimagining physical activity for children following the systemic disruptions from the COVID-19 pandemic in Australia. British Journal of Sports Medicine, 2022, 56, 899-900.	3.1	4
11	Author Correction: Japanese physical fitness surveillance: a greater need for international publications that utilize the world's best physical fitness database [J Phys Fitness Sports Med, 11 (3): 161-167 (2022)]. The Journal of Physical Fitness and Sports Medicine, 2022, 11, 261-261.	0.2	0
12	Developing a New Curvilinear Allometric Model to Improve the Fit and Validity of the 20-m Shuttle Run Test as a Predictor of Cardiorespiratory Fitness in Adults and Youth. Sports Medicine, 2021, 51, 1581-1589.	3.1	16
13	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. Journal of Sport and Health Science, 2021, 10, 462-469.	3.3	12
14	Handgrip Strength Asymmetry and Weakness Together Are Associated With Functional Disability in Aging Americans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 291-296.	1.7	47
15	Sleeping time is associated with functional limitations in a national sample of older Americans. Aging Clinical and Experimental Research, 2021, 33, 175-182.	1.4	9
16	Temporal Trends in the Standing Broad Jump Performance of United States Children and Adolescents. Research Quarterly for Exercise and Sport, 2021, 92, 71-81.	0.8	11
17	Handgrip Weakness and Asymmetry Independently Predict the Development of New Activity Limitations: Results from Analyses of Longitudinal Data from the US Health and Retirement Study. Journal of the American Medical Directors Association, 2021, 22, 821-826.e1.	1.2	12
18	The impact of the mechanical whole-body vibration experienced during military land transit on the physical attributes underpinning dismounted combatant physical performance: A randomised controlled trial. Journal of Science and Medicine in Sport, 2021, 24, 380-385.	0.6	1

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19	Physical fitness of Latin America children and adolescents: a protocol for a systematic review and meta-analysis. <i>BMJ Open</i> , 2021, 11, e047122.	0.8	3
20	Response to the Comment by Armstrong and Welsman on “Developing a New Curvilinear Allometric Model to Improve the Fit and Validity of the 20-m Shuttle Run Test as a Predictor of Cardiorespiratory Fitness in Adults and Youth”. <i>Sports Medicine</i> , 2021, 51, 1595-1597.	3.1	1
21	The Impact of a Telehealth Intervention on Activity Profiles in Older Adults during the COVID-19 Pandemic: A Pilot Study. <i>Geriatrics (Switzerland)</i> , 2021, 6, 68.	0.6	5
22	Assessing Additional Characteristics of Muscle Function With Digital Handgrip Dynamometry and Accelerometry: Framework for a Novel Handgrip Strength Protocol. <i>Journal of the American Medical Directors Association</i> , 2021, 22, 2313-2318.	1.2	17
23	Walking speed and balance both improved in older Japanese adults between 1998 and 2018. <i>Journal of Exercise Science and Fitness</i> , 2021, 19, 204-208.	0.8	7
24	Health-Related Criterion-Referenced Cut-Points for Musculoskeletal Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , 2021, 51, 2629-2646.	3.1	23
25	Prediction of military combat clothing size using decision trees and 3D body scan data. <i>Applied Ergonomics</i> , 2021, 95, 103435.	1.7	9
26	The Associations between Asymmetric Handgrip Strength and Chronic Disease Status in American Adults: Results from the National Health and Nutrition Examination Survey. <i>Journal of Functional Morphology and Kinesiology</i> , 2021, 6, 79.	1.1	3
27	Cluster size prediction for military clothing using 3D body scan data. <i>Applied Ergonomics</i> , 2021, 96, 103487.	1.7	13
28	Temporal trends in step test performance for Chinese adults between 2000 and 2014. <i>Journal of Exercise Science and Fitness</i> , 2021, 19, 216-222.	0.8	2
29	Temporal Trends in the Standing Broad Jump Performance of 10,940,801 Children and Adolescents Between 1960 and 2017. <i>Sports Medicine</i> , 2021, 51, 531-548.	3.1	42
30	Effects of Exercise Training on Resting Testosterone Concentrations in Insufficiently Active Men: A Systematic Review and Meta-Analysis. <i>Journal of Strength and Conditioning Research</i> , 2021, 35, 3521-3528.	1.0	3
31	Trends in physical fitness among Canadian adults, 2007 to 2017. <i>Health Reports</i> , 2021, 32, 3-15.	0.6	1
32	Testing validity of FitnessGram in two samples of US adolescents (12–15 years). <i>Journal of Exercise Science and Fitness</i> , 2020, 18, 129-135.	0.8	5
33	Reliability of the Styku 3D Whole-Body Scanner for the Assessment of Body Size in Athletes. <i>Measurement in Physical Education and Exercise Science</i> , 2020, 24, 228-234.	1.3	4
34	Factors associated with adherence to the muscle-strengthening activity guideline among adolescents. <i>Psychology of Sport and Exercise</i> , 2020, 51, 101747.	1.1	17
35	Temporal Trends in the Handgrip Strength of 2,592,714 Adults from 14 Countries Between 1960 and 2017: A Systematic Analysis. <i>Sports Medicine</i> , 2020, 50, 2175-2191.	3.1	15
36	Discussion of “Establishing modified Canadian Aerobic Fitness Test (mCAFT) cut-points to detect clustered cardiometabolic risk among Canadian children and youth aged 9 to 17 years”: The need for foundational fitness research in Canada: is there room for innovation?. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 344-345.	0.9	2

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37	Temporal trends in the sit-ups performance of 9,939,289 children and adolescents between 1964 and 2017. <i>Journal of Sports Sciences</i> , 2020, 38, 1913-1923.	1.0	31
38	Handgrip Strength Asymmetry and Weakness May Accelerate Time to Mortality in Aging Americans. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 2003-2007.e1.	1.2	31
39	A Systematic Analysis of Temporal Trends in the Handgrip Strength of 2,216,320 Children and Adolescents Between 1967 and 2017. <i>Sports Medicine</i> , 2020, 50, 1129-1144.	3.1	33
40	Criterion-referenced mCAFT cut-points to identify metabolically healthy cardiorespiratory fitness among adults aged 18â€“69 years: an analysis of the Canadian Health Measures Survey. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 1007-1014.	0.9	1
41	Global Surveillance of Cardiorespiratory and Musculoskeletal Fitness. , 2020, , 47-68.		5
42	Utility of international normative 20 m shuttle run values for identifying youth at increased cardiometabolic risk. <i>Journal of Sports Sciences</i> , 2019, 37, 507-514.	1.0	15
43	Life on holidays: study protocol for a 3-year longitudinal study tracking changes in childrenâ€™s fitness and fatness during the in-school versus summer holiday period. <i>BMC Public Health</i> , 2019, 19, 1353.	1.2	14
44	Test-retest reliability of TRIMP in collegiate ice hockey players. <i>Biology of Sport</i> , 2019, 36, 191-194.	1.7	4
45	The 20-m Shuttle Run: Assessment and Interpretation of Data in Relation to Youth Aerobic Fitness and Health. <i>Pediatric Exercise Science</i> , 2019, 31, 152-163.	0.5	68
46	Response to criticisms of the 20 m shuttle run test: deflections, distortions and distractions. <i>British Journal of Sports Medicine</i> , 2019, 53, 1200-1201.	3.1	10
47	Temporal Trends in the Cardiorespiratory Fitness of 2,525,827 Adults Between 1967 and 2016: A Systematic Review. <i>Sports Medicine</i> , 2019, 49, 41-55.	3.1	67
48	The great leap backward: changes in the jumping performance of Australian children aged 11â€“12-years between 1985 and 2015. <i>Journal of Sports Sciences</i> , 2019, 37, 748-754.	1.0	32
49	Temporal trends in the cardiorespiratory fitness of children and adolescents representing 19 high-income and upper middle-income countries between 1981 and 2014. <i>British Journal of Sports Medicine</i> , 2019, 53, 478-486.	3.1	219
50	Review of criterion-referenced standards for cardiorespiratory fitness: what percentage of 1â€™142â€™026 international children and youth are apparently healthy?. <i>British Journal of Sports Medicine</i> , 2019, 53, 953-958.	3.1	52
51	Normative-referenced percentile values for physical fitness among Canadians. <i>Health Reports</i> , 2019, 30, 14-22.	0.6	18
52	Relationship Between Skating Economy and Performance During a Repeated-Shift Test in Elite and Subelite Ice Hockey Players. <i>Journal of Strength and Conditioning Research</i> , 2018, 32, 1109-1113.	1.0	5
53	Making a Case for Cardiorespiratory Fitness Surveillance Among Children and Youth. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 66-75.	1.6	88
54	The relationship between ventilatory threshold and repeated-sprint ability in competitive male ice hockey players. <i>Journal of Exercise Science and Fitness</i> , 2018, 16, 32-36.	0.8	7

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55	International variability in 20m shuttle run performance in children and youth: who are the fittest from a 50-country comparison? A systematic literature review with pooling of aggregate results. British Journal of Sports Medicine, 2018, 52, 276-276.	3.1	86
56	Test-retest reliability of jump execution variables using mechanography: a comparison of jump protocols. Journal of Sports Sciences, 2018, 36, 963-969.	1.0	5
57	Relationships between the second to fourth digit ratio (2D:4D) and game-related statistics in semi-professional female basketball players. American Journal of Human Biology, 2018, 30, e23070.	0.8	7
58	Systematic review of the relationship between 20 m shuttle run performance and health indicators among children and youth. Journal of Science and Medicine in Sport, 2018, 21, 383-397.	0.6	115
59	European normative values for physical fitness in children and adolescents aged 9–17 years: results from 2 779 165 Eurofit performances representing 30 countries. British Journal of Sports Medicine, 2018, 52, 1445-1456.	3.1	257
60	Results from Australia's 2018 Report Card on Physical Activity for Children and Youth. Journal of Physical Activity and Health, 2018, 15, S315-S317.	1.0	36
61	The Simulation of the Whole-Body Vibration Experienced During Military Land Transit. Human Factors and Mechanical Engineering for Defense and Safety, 2018, 2, 1.	2.4	2
62	Cardiorespiratory fitness is associated with physical literacy in a large sample of Canadian children aged 8 to 12 years. BMC Public Health, 2018, 18, 1041.	1.2	32
63	Relationships between the digit ratio (2D:4D) and game-related statistics in professional and semi-professional male basketball players. American Journal of Human Biology, 2018, 30, e23182.	0.8	7
64	Cardiorespiratory fitness in children: Evidence for criterion-referenced cut-points. PLoS ONE, 2018, 13, e0201048.	1.1	20
65	Field-based measurement of cardiorespiratory fitness to evaluate physical activity interventions. Bulletin of the World Health Organization, 2018, 96, 794-796.	1.5	41
66	Time changes in the body dimensions of male Australian Army personnel between 1977 and 2012. Applied Ergonomics, 2017, 58, 18-24.	1.7	16
67	Addition of the apical oblique projection increases the detection of acute traumatic shoulder abnormalities in adults. Emergency Radiology, 2017, 24, 329-334.	1.0	4
68	International normative 20m shuttle run values from 142 children and youth representing 50 countries. British Journal of Sports Medicine, 2017, 51, 1545-1554.	3.1	179
69	Digit ratio (2D:4D) and muscular strength in adolescent boys. Early Human Development, 2017, 113, 7-9.	0.8	16
70	Relationships between digit ratio (2D:4D) and basketball performance in Australian men. American Journal of Human Biology, 2017, 29, e22937.	0.8	17
71	The shared motorised military land transit experiences of Australian Defence Force infantry personnel. Journal of Science and Medicine in Sport, 2017, 20, S111-S112.	0.6	1
72	No Effect of a Whey Growth Factor Extract during Resistance Training on Strength, Body Composition, or Hypertrophic Gene Expression in Resistance-Trained Young Men. Journal of Sports Science and Medicine, 2017, 16, 230-238.	0.7	1

#	ARTICLE	IF	CITATIONS
73	Australia and Other Nations Are Failing to Meet Sedentary Behaviour Guidelines for Children: Implications and a Way Forward. <i>Journal of Physical Activity and Health</i> , 2016, 13, 177-188.	1.0	16
74	Global Matrix 2.0: Report Card Grades on the Physical Activity of Children and Youth Comparing 38 Countries. <i>Journal of Physical Activity and Health</i> , 2016, 13, S343-S366.	1.0	349
75	Results From Australia's 2016 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2016, 13, S87-S94.	1.0	26
76	Introduction to the Global Matrix 2.0: Report Card Grades on the Physical Activity of Children and Youth Comparing 38 Countries. <i>Journal of Physical Activity and Health</i> , 2016, 13, S85-S86.	1.0	20
77	The contribution of organised sports to physical activity in Australia: Results and directions from the Active Healthy Kids Australia 2014 Report Card on physical activity for children and young people. <i>Journal of Science and Medicine in Sport</i> , 2016, 19, 407-412.	0.6	46
78	Early myogenic responses to acute exercise before and after resistance training in young men. <i>Physiological Reports</i> , 2015, 3, e12511.	0.7	19
79	Physical Activity Report Cards: Active Healthy Kids Global Alliance and the Lancet Physical Activity Observatory. <i>Journal of Physical Activity and Health</i> , 2015, 12, 297-298.	1.0	8
80	Relationships between digit ratio (2D:4D) and female competitive rowing performance. <i>American Journal of Human Biology</i> , 2015, 27, 157-163.	0.8	31
81	Volumetric differences in body shape among adults with differing body mass index values: An analysis using three-dimensional body scans. <i>American Journal of Human Biology</i> , 2014, 26, 156-163.	0.8	17
82	Can resistance training change the strength, body composition and self-concept of overweight and obese adolescent males? A randomised controlled trial. <i>British Journal of Sports Medicine</i> , 2014, 48, 1482-1488.	3.1	54
83	Physical Activity of Children: A Global Matrix of Grades Comparing 15 Countries. <i>Journal of Physical Activity and Health</i> , 2014, 11, S113-S125.	1.0	304
84	Results from Australia's 2014 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2014, 11, S21-S25.	1.0	34
85	What is the Effect of Resistance Training on the Strength, Body Composition and Psychosocial Status of Overweight and Obese Children and Adolescents? A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2013, 43, 893-907.	3.1	81
86	Quantification of the postural and technical errors in asymptomatic adults using direct 3D whole body scan measurements of standing posture. <i>Gait and Posture</i> , 2013, 37, 172-177.	0.6	28
87	Research priorities for child and adolescent physical activity and sedentary behaviours: an international perspective using a twin-panel Delphi procedure. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2013, 10, 112.	2.0	42
88	Normative health-related fitness values for children: analysis of 85347 test results on 9-17-year-old Australians since 1985. <i>British Journal of Sports Medicine</i> , 2013, 47, 98-108.	3.1	166
89	Is three-dimensional anthropometric analysis as good as traditional anthropometric analysis in predicting junior rowing performance?. <i>Journal of Sports Sciences</i> , 2012, 30, 1241-1248.	1.0	16
90	Testing the activitystat hypothesis: a randomised controlled trial protocol. <i>BMC Public Health</i> , 2012, 12, 851.	1.2	5

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91	Temporal Changes in Long-Distance Running Performance of Asian Children between 1964 and 2009. Sports Medicine, 2012, 42, 267-279.	3.1	33
92	Technical note: Criterion validity of whole body surface area equations: A comparison using 3D laser scanning. American Journal of Physical Anthropology, 2012, 148, 148-155.	2.1	20
93	International Olympic Committee consensus statement on the health and fitness of young people through physical activity and sport. British Journal of Sports Medicine, 2011, 45, 839-848.	3.1	109
94	What proportion of youth are physically active? Measurement issues, levels and recent time trends. British Journal of Sports Medicine, 2011, 45, 859-865.	3.1	236
95	Aerobic fitness and its relationship to sport, exercise training and habitual physical activity during youth. British Journal of Sports Medicine, 2011, 45, 849-858.	3.1	176
96	Aerobic fitness thresholds for cardio metabolic health in children and adolescents. British Journal of Sports Medicine, 2011, 45, 686-687.	3.1	14
97	The importance of site location for girth measurements. Journal of Sports Sciences, 2010, 28, 751-757.	1.0	9
98	Three-dimensional anthropometric analysis: Differences between elite Australian rowers and the general population. Journal of Sports Sciences, 2010, 28, 459-469.	1.0	50
99	Secular changes in body dimensions of Royal Australian Air Force aircrew (1971â€“2005). Ergonomics, 2010, 53, 994-1005.	1.1	15
100	Changes in Eurofit Test Performance of Estonian and Lithuanian Children and Adolescents (1992â€“2002). , 2007, 50, 129-142.		31
101	Evolution and Variability in Fitness Test Performance of Asian Children and Adolescents. , 2007, 50, 143-167.		22
102	Secular Changes in Aerobic Fitness Test Performance of Australasian Children and Adolescents. Medicine and Sport Science, 2007, 50, 168-182.	1.4	65
103	Who Are the Eurofittest?. , 2007, 50, 104-128.		43
104	Declines in Aerobic Fitness: Are They Only Due to Increasing Fatness?. , 2007, 50, 226-240.		34
105	Secular Changes in Pediatric Aerobic Fitness Test Performance: The Global Picture. , 2007, 50, 46-66.		249
106	Worldwide variation in the performance of children and adolescents: An analysis of 109 studies of the 20-m shuttle run test in 37 countries. Journal of Sports Sciences, 2006, 24, 1025-1038.	1.0	183
107	Secular Changes in Anaerobic Test Performance in Australasian Children and Adolescents. Pediatric Exercise Science, 2006, 18, 314-328.	0.5	17
108	Bilateral symmetry and the competitive standard attained in elite and sub-elite sport. Journal of Sports Sciences, 2003, 21, 201-211.	1.0	30

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109	Secular Trends in the Performance of Children and Adolescents (1980???2000). Sports Medicine, 2003, 33, 285-300.	3.1	355