

# Grant Ryan Tomkinson

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100  
papers

3,263  
citations

27  
h-index

55  
g-index

112  
ext. papers

4,048  
ext. citations

4.9  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
100	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> , <b>2016</b> , 13, S343-S366	2.5	278
99	Secular trends in the performance of children and adolescents (1980-2000): an analysis of 55 studies of the 20m shuttle run test in 11 countries. <i>Sports Medicine</i> , <b>2003</b> , 33, 285-300	10.6	270
98	Physical activity of children: a global matrix of grades comparing 15 countries. <i>Journal of Physical Activity and Health</i> , <b>2014</b> , 11 Suppl 1, S113-25	2.5	237
97	What proportion of youth are physically active? Measurement issues, levels and recent time trends. <i>British Journal of Sports Medicine</i> , <b>2011</b> , 45, 859-65	10.3	196
96	Secular changes in pediatric aerobic fitness test performance: the global picture. <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 46-66		188
95	Worldwide variation in the performance of children and adolescents: an analysis of 109 studies of the 20-m shuttle run test in 37 countries. <i>Journal of Sports Sciences</i> , <b>2006</b> , 24, 1025-38	3.6	135
94	European normative values for physical fitness in children and adolescents aged 9-17 years: results from 2 779 165 Eurofit performances representing 30 countries. <i>British Journal of Sports Medicine</i> , <b>2018</b> , 52, 1445-14563	10.3	127
93	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> , <b>2013</b> , 47, 98-108	10.3	124
92	Aerobic fitness and its relationship to sport, exercise training and habitual physical activity during youth. <i>British Journal of Sports Medicine</i> , <b>2011</b> , 45, 849-58	10.3	123
91	International normative 20 m shuttle run values from 1 142 026 children and youth representing 50 countries. <i>British Journal of Sports Medicine</i> , <b>2017</b> , 51, 1545-1554	10.3	118
90	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> , <b>2019</b> , 53, 478-486	10.3	108
89	International Olympic Committee consensus statement on the health and fitness of young people through physical activity and sport. <i>British Journal of Sports Medicine</i> , <b>2011</b> , 45, 839-48	10.3	85
88	Systematic review of the relationship between 20m shuttle run performance and health indicators among children and youth. <i>Journal of Science and Medicine in Sport</i> , <b>2018</b> , 21, 383-397	4.4	79
87	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> , <b>2013</b> , 43, 893-907	10.6	68
86	International variability in 20 m 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. <i>British Journal of Sports Medicine</i> , <b>2018</b> , 52, 276	10.3	62
85	Making a Case for Cardiorespiratory Fitness Surveillance Among Children and Youth. <i>Exercise and Sport Sciences Reviews</i> , <b>2018</b> , 46, 66-75	6.7	51
84	Three-dimensional anthropometric analysis: differences between elite Australian rowers and the general population. <i>Journal of Sports Sciences</i> , <b>2010</b> , 28, 459-69	3.6	45

83	Secular changes in aerobic fitness test performance of Australasian children and adolescents. <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 168-182		45
82	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> , <b>2016</b> , 19, 407-12	4.4	39
81	Temporal Trends in the Cardiorespiratory Fitness of 2,525,827 Adults Between 1967 and 2016: A Systematic Review. <i>Sports Medicine</i> , <b>2019</b> , 49, 41-55	10.6	39
80	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> , <b>2014</b> , 48, 1482-8	10.3	37
79	The 20-m Shuttle Run: Assessment and Interpretation of Data in Relation to Youth Aerobic Fitness and Health. <i>Pediatric Exercise Science</i> , <b>2019</b> , 31, 152-163	2	35
78	Review of criterion-referenced standards for cardiorespiratory fitness: what percentage of 1 142 026 international children and youth are apparently healthy?. <i>British Journal of Sports Medicine</i> , <b>2019</b> , 53, 953-958	10.3	35
77	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> , <b>2013</b> , 10, 112	8.4	32
76	Temporal changes in long-distance running performance of Asian children between 1964 and 2009. <i>Sports Medicine</i> , <b>2012</b> , 42, 267-79	10.6	31
75	Who are the Eurofittest?. <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 104-128		29
74	Results from Australia's 2014 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , <b>2014</b> , 11 Suppl 1, S21-5	2.5	27
73	Declines in aerobic fitness: are they only due to increasing fatness?. <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 226-240		26
72	Relationships between digit ratio (2D:4D) and female competitive rowing performance. <i>American Journal of Human Biology</i> , <b>2015</b> , 27, 157-63	2.7	24
71	Changes in Eurofit test performance of Estonian and Lithuanian children and adolescents (1992-2002). <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 129-142		24
70	Field-based measurement of cardiorespiratory fitness to evaluate physical activity interventions. <i>Bulletin of the World Health Organization</i> , <b>2018</b> , 96, 794-796	8.2	23
69	Results from Australia's 2018 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , <b>2018</b> , 15, S315-S317	2.5	23
68	Cardiorespiratory fitness is associated with physical literacy in a large sample of Canadian children aged 8 to 12 years. <i>BMC Public Health</i> , <b>2018</b> , 18, 1041	4.1	22
67	Results From Australia's 2016 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , <b>2016</b> , 13, S87-S94	2.5	20
66	Bilateral symmetry and the competitive standard attained in elite and sub-elite sport. <i>Journal of Sports Sciences</i> , <b>2003</b> , 21, 201-11	3.6	20

65	The great leap backward: changes in the jumping performance of Australian children aged 11-12-years between 1985 and 2015. <i>Journal of Sports Sciences</i> , <b>2019</b> , 37, 748-754	3.6	20
64	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> , <b>2013</b> , 37, 172-7	2.6	19
63	Technical note: Criterion validity of whole body surface area equations: a comparison using 3D laser scanning. <i>American Journal of Physical Anthropology</i> , <b>2012</b> , 148, 148-55	2.5	18
62	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> , <b>2016</b> , 13, S85-S86	2.5	16
61	Evolution and variability in fitness test performance of Asian children and adolescents. <i>Medicine and Sport Science</i> , <b>2007</b> , 50, 143-167		16
60	Handgrip Strength Asymmetry and Weakness Together Are Associated With Functional Disability in Aging Americans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 291-296	6.4	16
59	Secular Changes in Anaerobic Test Performance in Australasian Children and Adolescents. <i>Pediatric Exercise Science</i> , <b>2006</b> , 18, 314-328	2	14
58	Time changes in the body dimensions of male Australian Army personnel between 1977 and 2012. <i>Applied Ergonomics</i> , <b>2017</b> , 58, 18-24	4.2	13
57	Relationships between digit ratio (2D:4D) and basketball performance in Australian men. <i>American Journal of Human Biology</i> , <b>2017</b> , 29, e22937	2.7	13
56	Is three-dimensional anthropometric analysis as good as traditional anthropometric analysis in predicting junior rowing performance?. <i>Journal of Sports Sciences</i> , <b>2012</b> , 30, 1241-8	3.6	13
55	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> , <b>2016</b> , 13, 177-88	2.5	13
54	Temporal trends in the sit-ups performance of 9,939,289 children and adolescents between 1964 and 2017. <i>Journal of Sports Sciences</i> , <b>2020</b> , 38, 1913-1923	3.6	12
53	Secular changes in body dimensions of Royal Australian Air Force aircrew (1971-2005). <i>Ergonomics</i> , <b>2010</b> , 53, 994-1005	2.9	12
52	Temporal Trends in the Standing Broad Jump Performance of 10,940,801 Children and Adolescents Between 1960 and 2017. <i>Sports Medicine</i> , <b>2021</b> , 51, 531-548	10.6	12
51	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> , <b>2020</b> , 50, 1129-1144	10.6	11
50	Cardiorespiratory fitness in children: Evidence for criterion-referenced cut-points. <i>PLoS ONE</i> , <b>2018</b> , 13, e0201048	3.7	11
49	Utility of international normative 20 m shuttle run values for identifying youth at increased cardiometabolic risk. <i>Journal of Sports Sciences</i> , <b>2019</b> , 37, 507-514	3.6	11
48	Digit ratio (2D:4D) and muscular strength in adolescent boys. <i>Early Human Development</i> , <b>2017</b> , 113, 7-9	2.2	11

47	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> , <b>2014</b> , 26, 156-63	2.7	11
46	Handgrip Strength Asymmetry and Weakness May Accelerate Time to Mortality in Aging Americans. <i>Journal of the American Medical Directors Association</i> , <b>2020</b> , 21, 2003-2007.e1	5.9	10
45	Normative-referenced percentile values for physical fitness among Canadians. <i>Health Reports</i> , <b>2019</b> , 30, 14-22	4.7	10
44	Early myogenic responses to acute exercise before and after resistance training in young men. <i>Physiological Reports</i> , <b>2015</b> , 3, e12511	2.6	9
43	The importance of site location for girth measurements. <i>Journal of Sports Sciences</i> , <b>2010</b> , 28, 751-7	3.6	9
42	Relationships between the second to fourth digit ratio (2D:4D) and game-related statistics in semi-professional female basketball players. <i>American Journal of Human Biology</i> , <b>2018</b> , 30, e23070	2.7	6
41	Physical activity report cards: Active Healthy Kids Global Alliance and The Lancet Physical Activity Observatory. <i>Journal of Physical Activity and Health</i> , <b>2015</b> , 12, 297-8	2.5	6
40	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> , <b>2020</b> , 50, 2175-2191	10.6	6
39	Temporal Trends in the Standing Broad Jump Performance of United States Children and Adolescents. <i>Research Quarterly for Exercise and Sport</i> , <b>2021</b> , 92, 71-81	1.9	6
38	Test-retest reliability of jump execution variables using mechanography: a comparison of jump protocols. <i>Journal of Sports Sciences</i> , <b>2018</b> , 36, 963-969	3.6	5
37	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> , <b>2021</b> , 51, 1581-1589	10.6	5
36	Factors associated with adherence to the muscle-strengthening activity guideline among adolescents. <i>Psychology of Sport and Exercise</i> , <b>2020</b> , 51, 101747	4.2	5
35	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> , <b>2021</b> , 22, 2313-2318	5.9	5
34	Health-Related Criterion-Referenced Cut-Points for Musculoskeletal Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , <b>2021</b> , 51, 2629-2646	10.6	5
33	Cluster size prediction for military clothing using 3D body scan data. <i>Applied Ergonomics</i> , <b>2021</b> , 96, 1034872	4.7	5
32	Life on holidays: study protocol for a 3-year longitudinal study tracking changes in children's fitness and fatness during the in-school versus summer holiday period. <i>BMC Public Health</i> , <b>2019</b> , 19, 1353	4.1	4
31	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. <i>Journal of Sport and Health Science</i> , <b>2021</b> , 10, 462-469	8.2	4
30	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> , <b>2018</b> , 32, 1109-1113	3.2	4

29	The relationship between ventilatory threshold and repeated-sprint ability in competitive male ice hockey players. <i>Journal of Exercise Science and Fitness</i> , <b>2018</b> , 16, 32-36	3.1	4
28	Testing the activitystat hypothesis: a randomised controlled trial protocol. <i>BMC Public Health</i> , <b>2012</b> , 12, 851	4.1	4
27	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. <i>Journal of the American Medical Directors Association</i> , <b>2021</b> , 22, 821-826.e1	5.9	4
26	Addition of the apical oblique projection increases the detection of acute traumatic shoulder abnormalities in adults. <i>Emergency Radiology</i> , <b>2017</b> , 24, 329-334	3	3
25	Testing validity of FitnessGram in two samples of US adolescents (12-15 years). <i>Journal of Exercise Science and Fitness</i> , <b>2020</b> , 18, 129-135	3.1	3
24	Sleeping time is associated with functional limitations in a national sample of older Americans. <i>Aging Clinical and Experimental Research</i> , <b>2021</b> , 33, 175-182	4.8	3
23	Relationships between the digit ratio (2D:4D) and game-related statistics in professional and semi-professional male basketball players. <i>American Journal of Human Biology</i> , <b>2018</b> , 30, e23182	2.7	3
22	Japanese physical fitness surveillance: a greater need for international publications that utilize the world's best physical fitness database. <i>The Journal of Physical Fitness and Sports Medicine</i> , <b>2022</b> , 11, 161-167	0.5	3
21	Test-retest reliability of TRIMP in collegiate ice hockey players. <i>Biology of Sport</i> , <b>2019</b> , 36, 191-194	4.3	2
20	Global Surveillance of Cardiorespiratory and Musculoskeletal Fitness <b>2020</b> , 47-68		2
19	Walking speed and balance both improved in older Japanese adults between 1998 and 2018. <i>Journal of Exercise Science and Fitness</i> , <b>2021</b> , 19, 204-208	3.1	2
18	The Simulation of the Whole-Body Vibration Experienced During Military Land Transit. <i>Human Factors and Mechanical Engineering for Defense and Safety</i> , <b>2018</b> , 2, 1	1.7	2
17	The relationship between digit ratio (2D:4D) and muscular fitness: A systematic review and meta-analysis. <i>American Journal of Human Biology</i> , <b>2021</b> , e23657	2.7	2
16	How Should Adult Handgrip Strength Be Normalized? Allometry Reveals New Insights and Associated Reference Curves. <i>Medicine and Science in Sports and Exercise</i> , <b>2021</b> ,	1.2	2
15	Health-Related Criterion-Referenced Cut-Points for Cardiorespiratory Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , <b>2021</b> , 1	10.6	2
14	Prediction of military combat clothing size using decision trees and 3D body scan data. <i>Applied Ergonomics</i> , <b>2021</b> , 95, 103435	4.2	2
13	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> , <b>2020</b> , 45, 344-345	3	1
12	No Effect of a Whey Growth Factor Extract during Resistance Training on Strength, Body Composition, or Hypertrophic Gene Expression in Resistance-Trained Young Men. <i>Journal of Sports Science and Medicine</i> , <b>2017</b> , 16, 230-238	2.7	1

11	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> , <b>2021</b> , 35, 3521-3528	3.2	1
10	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> , <b>2020</b> , 24, 228-234	1.9	1
9	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> , <b>2021</b> , 51, 1595-1597	10.6	1
8	Temporal trends in step test performance for Chinese adults between 2000 and 2014. <i>Journal of Exercise Science and Fitness</i> , <b>2021</b> , 19, 216-222	3.1	1
7	Handgrip strength asymmetry is associated with slow gait speed and poorer standing balance in older Americans.. <i>Archives of Gerontology and Geriatrics</i> , <b>2022</b> , 102, 104716	4	1
6	Criterion-referenced mCAFT cut-points to identify metabolically healthy cardiorespiratory fitness among adults aged 18-69 years: an analysis of the Canadian Health Measures Survey. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2020</b> , 45, 1007-1014	3	0
5	Player Profiling and Monitoring in Basketball: A Delphi Study of the Most Important Non-Game Performance Indicators from the Perspective of Elite Athlete Coaches. <i>Sports Medicine</i> , <b>2021</b> , 1	10.6	0
4	Physical fitness of Latin America children and adolescents: a protocol for a systematic review and meta-analysis. <i>BMJ Open</i> , <b>2021</b> , 11, e047122	3	0
3	The relationship between the digit ratio (2D:4D) and vertical jump performance in young athletes. <i>American Journal of Human Biology</i> , <b>2021</b> , e23679	2.7	0
2	Trends in physical fitness among Canadian adults, 2007 to 2017. <i>Health Reports</i> , <b>2021</b> , 32, 3-15	4.7	0
1	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. <i>Journal of Science and Medicine in Sport</i> , <b>2021</b> , 24, 380-385	4.4	