

# Grant Ryan Tomkinson

## List of Publications by Year in descending order

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109  
papers

4,876  
citations

159585

30  
h-index

110387

64  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Secular Trends in the Performance of Children and Adolescents (1980-2000). Sports Medicine, 2003, 33, 285-300.	6.5	355
2	Global Matrix 2.0: Report Card Grades on the Physical Activity of Children and Youth Comparing 38 Countries. Journal of Physical Activity and Health, 2016, 13, S343-S366.	2.0	349
3	Physical Activity of Children: A Global Matrix of Grades Comparing 15 Countries. Journal of Physical Activity and Health, 2014, 11, S113-S125.	2.0	304
4	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.	6.7	257
5	Secular Changes in Pediatric Aerobic Fitness Test Performance: The Global Picture. , 2007, 50, 46-66.		249
6	What proportion of youth are physically active? Measurement issues, levels and recent time trends. British Journal of Sports Medicine, 2011, 45, 859-865.	6.7	236
7	Temporal trends in the cardiorespiratory fitness of children and adolescents representing 19 high-income and upper middle-income countries between 1981 and 2014. British Journal of Sports Medicine, 2019, 53, 478-486.	6.7	219
8	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.	2.0	183
9	International normative 20-m shuttle run values from 142 026 children and youth representing 50 countries. British Journal of Sports Medicine, 2017, 51, 1545-1554.	6.7	179
10	Aerobic fitness and its relationship to sport, exercise training and habitual physical activity during youth. British Journal of Sports Medicine, 2011, 45, 849-858.	6.7	176
11	Normative health-related fitness values for children: analysis of 85347 test results on 9-17-year-old Australians since 1985. British Journal of Sports Medicine, 2013, 47, 98-108.	6.7	166
12	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.	1.3	115
13	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.	6.7	109
14	Making a Case for Cardiorespiratory Fitness Surveillance Among Children and Youth. Exercise and Sport Sciences Reviews, 2018, 46, 66-75.	3.0	88
15	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. British Journal of Sports Medicine, 2018, 52, 276-276.	6.7	86
16	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. Sports Medicine, 2013, 43, 893-907.	6.5	81
17	The 20-m Shuttle Run: Assessment and Interpretation of Data in Relation to Youth Aerobic Fitness and Health. Pediatric Exercise Science, 2019, 31, 152-163.	1.0	68
18	Temporal Trends in the Cardiorespiratory Fitness of 2,525,827 Adults Between 1967 and 2016: A Systematic Review. Sports Medicine, 2019, 49, 41-55.	6.5	67

#	ARTICLE	IF	CITATIONS
19	Secular Changes in Aerobic Fitness Test Performance of Australasian Children and Adolescents. <i>Medicine and Sport Science</i> , 2007, 50, 168-182.	1.4	65
20	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.	6.7	54
21	Review of criterion-referenced standards for cardiorespiratory fitness: what percentage of 1426 international children and youth are apparently healthy?. <i>British Journal of Sports Medicine</i> , 2019, 53, 953-958.	6.7	52
22	Three-dimensional anthropometric analysis: Differences between elite Australian rowers and the general population. <i>Journal of Sports Sciences</i> , 2010, 28, 459-469.	2.0	50
23	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> , 2021, 76, 291-296.	3.6	47
24	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.	1.3	46
25	Who Are the Eurofittest?. , 2007, 50, 104-128.		43
26	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.	4.6	42
27	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.	6.5	42
28	Field-based measurement of cardiorespiratory fitness to evaluate physical activity interventions. <i>Bulletin of the World Health Organization</i> , 2018, 96, 794-796.	3.3	41
29	Results from Australia's 2018 Report Card on Physical Activity for Children and Youth. <i>Journal of Physical Activity and Health</i> , 2018, 15, S315-S317.	2.0	36
30	Declines in Aerobic Fitness: Are They Only Due to Increasing Fatness?. , 2007, 50, 226-240.		34
31	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.	2.0	34
32	Temporal Changes in Long-Distance Running Performance of Asian Children between 1964 and 2009. <i>Sports Medicine</i> , 2012, 42, 267-279.	6.5	33
33	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.	6.5	33
34	Cardiorespiratory fitness is associated with physical literacy in a large sample of Canadian children aged 8 to 12 years. <i>BMC Public Health</i> , 2018, 18, 1041.	2.9	32
35	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> , 2019, 37, 748-754.	2.0	32
36	Changes in Eurofit Test Performance of Estonian and Lithuanian Children and Adolescents (1992-2002). , 2007, 50, 129-142.		31

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37	Relationships between digit ratio (2D:4D) and female competitive rowing performance. <i>American Journal of Human Biology</i> , 2015, 27, 157-163.	1.6	31
38	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.	2.0	31
39	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.	2.5	31
40	Bilateral symmetry and the competitive standard attained in elite and sub-elite sport. <i>Journal of Sports Sciences</i> , 2003, 21, 201-211.	2.0	30
41	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.	1.4	28
42	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.	2.0	26
43	How Should Adult Handgrip Strength Be Normalized? Allometry Reveals New Insights and Associated Reference Curves. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 162-168.	0.4	24
44	Health-Related Criterion-Referenced Cut-Points for Musculoskeletal Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , 2021, 51, 2629-2646.	6.5	23
45	Evolution and Variability in Fitness Test Performance of Asian Children and Adolescents. , 2007, 50, 143-167.		22
46	Technical note: Criterion validity of whole body surface area equations: A comparison using 3D laser scanning. <i>American Journal of Physical Anthropology</i> , 2012, 148, 148-155.	2.1	20
47	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.	2.0	20
48	Cardiorespiratory fitness in children: Evidence for criterion-referenced cut-points. <i>PLoS ONE</i> , 2018, 13, e0201048.	2.5	20
49	Early myogenic responses to acute exercise before and after resistance training in young men. <i>Physiological Reports</i> , 2015, 3, e12511.	1.7	19
50	Normative-referenced percentile values for physical fitness among Canadians. <i>Health Reports</i> , 2019, 30, 14-22.	0.8	18
51	Secular Changes in Anaerobic Test Performance in Australasian Children and Adolescents. <i>Pediatric Exercise Science</i> , 2006, 18, 314-328.	1.0	17
52	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.	1.6	17
53	Relationships between digit ratio (2D:4D) and basketball performance in Australian men. <i>American Journal of Human Biology</i> , 2017, 29, e22937.	1.6	17
54	Factors associated with adherence to the muscle-strengthening activity guideline among adolescents. <i>Psychology of Sport and Exercise</i> , 2020, 51, 101747.	2.1	17

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55	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.	2.5	17
56	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.	2.0	16
57	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.	2.0	16
58	Time changes in the body dimensions of male Australian Army personnel between 1977 and 2012. <i>Applied Ergonomics</i> , 2017, 58, 18-24.	3.1	16
59	Digit ratio (2D:4D) and muscular strength in adolescent boys. <i>Early Human Development</i> , 2017, 113, 7-9.	1.8	16
60	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, 1581-1589.	6.5	16
61	Secular changes in body dimensions of Royal Australian Air Force aircrew (1971â€“2005). <i>Ergonomics</i> , 2010, 53, 994-1005.	2.1	15
62	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.	2.0	15
63	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.	6.5	15
64	Handgrip strength asymmetry is associated with slow gait speed and poorer standing balance in older Americans. <i>Archives of Gerontology and Geriatrics</i> , 2022, 102, 104716.	3.0	15
65	Aerobic fitness thresholds for cardio metabolic health in children and adolescents. <i>British Journal of Sports Medicine</i> , 2011, 45, 686-687.	6.7	14
66	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.	2.9	14
67	The relationship between digit ratio ( $2D:4D$ ) and muscular fitness: A systematic review and meta-analysis. <i>American Journal of Human Biology</i> , 2022, 34, e23657.	1.6	13
68	Health-Related Criterion-Referenced Cut-Points for Cardiorespiratory Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , 2022, 52, 101-122.	6.5	13
69	Cluster size prediction for military clothing using 3D body scan data. <i>Applied Ergonomics</i> , 2021, 96, 103487.	3.1	13
70	Temporal trends in 6-minute walking distance for older Japanese adults between 1998 and 2017. <i>Journal of Sport and Health Science</i> , 2021, 10, 462-469.	6.5	12
71	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> , 2021, 22, 821-826.e1.	2.5	12
72	Temporal Trends in the Standing Broad Jump Performance of United States Children and Adolescents. <i>Research Quarterly for Exercise and Sport</i> , 2021, 92, 71-81.	1.4	11

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73	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.	6.7	10
74	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> , 2022, 52, 1175-1187.	6.5	10
75	The importance of site location for girth measurements. <i>Journal of Sports Sciences</i> , 2010, 28, 751-757.	2.0	9
76	Sleeping time is associated with functional limitations in a national sample of older Americans. <i>Aging Clinical and Experimental Research</i> , 2021, 33, 175-182.	2.9	9
77	Prediction of military combat clothing size using decision trees and 3D body scan data. <i>Applied Ergonomics</i> , 2021, 95, 103435.	3.1	9
78	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.	2.0	8
79	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> , 2022, 11, 161-167.	0.3	8
80	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.	2.2	7
81	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> , 2018, 30, e23070.	1.6	7
82	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> , 2018, 30, e23182.	1.6	7
83	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.	2.2	7
84	Temporal Trends in the Physical Fitness of Hong Kong Adolescents Between 1998 and 2015. <i>International Journal of Sports Medicine</i> , 2023, 44, 728-735.	1.7	6
85	Testing the activitystat hypothesis: a randomised controlled trial protocol. <i>BMC Public Health</i> , 2012, 12, 851.	2.9	5
86	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.	2.1	5
87	Test-retest reliability of jump execution variables using mechanography: a comparison of jump protocols. <i>Journal of Sports Sciences</i> , 2018, 36, 963-969.	2.0	5
88	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.	2.2	5
89	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.	1.7	5
90	Global Surveillance of Cardiorespiratory and Musculoskeletal Fitness. , 2020, , 47-68.		5

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91	Addition of the apical oblique projection increases the detection of acute traumatic shoulder abnormalities in adults. <i>Emergency Radiology</i> , 2017, 24, 329-334.	1.8	4
92	Test-retest reliability of TRIMP in collegiate ice hockey players. <i>Biology of Sport</i> , 2019, 36, 191-194.	3.2	4
93	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.	1.8	4
94	Reimagining physical activity for children following the systemic disruptions from the COVID-19 pandemic in Australia. <i>British Journal of Sports Medicine</i> , 2022, 56, 899-900.	6.7	4
95	Physical fitness of Latin America children and adolescents: a protocol for a systematic review and meta-analysis. <i>BMJ Open</i> , 2021, 11, e047122.	1.9	3
96	The relationship between the digit ratio ( $2D/4D$ ) and vertical jump performance in young athletes. <i>American Journal of Human Biology</i> , 2022, 34, e23679.	1.6	3
97	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.	2.4	3
98	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.	2.1	3
99	The Simulation of the Whole-Body Vibration Experienced During Military Land Transit. <i>Human Factors and Mechanical Engineering for Defense and Safety</i> , 2018, 2, 1.	0.4	2
100	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.	1.9	2
101	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.	2.2	2
102	The shared motorised military land transit experiences of Australian Defence Force infantry personnel. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, S111-S112.	1.3	1
103	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> , 2020, 45, 1007-1014.	1.9	1
104	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> , 2021, 24, 380-385.	1.3	1
105	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.	6.5	1
106	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> , 2017, 16, 230-238.	1.6	1
107	What is the optimal anthropometric index/ratio associated with two key measures of cardio-metabolic risk associated with hypertension and diabetes?. <i>International Journal of Obesity</i> , 2022, , .	3.4	1
108	Trends in physical fitness among Canadian adults, 2007 to 2017. <i>Health Reports</i> , 2021, 32, 3-15.	0.8	1

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109	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.	0.3	0