

Grant Ryan Tomkinson

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,876
citations

182225

30
h-index

124990

64
g-index

112
all docs

112
docs citations

112
times ranked

4557
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.8	6
2	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.	0.8	13
3	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.	0.2	24
4	Health-Related Criterion-Referenced Cut-Points for Cardiorespiratory Fitness Among Youth: A Systematic Review. <i>Sports Medicine</i> , 2022, 52, 101-122.	3.1	13
5	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.	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. <i>Sports Medicine</i> , 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?. <i>International Journal of Obesity</i> , 2022, , .	1.6	1
8	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.	0.2	8
9	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.	1.4	15
10	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.	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)]. <i>The Journal of Physical Fitness and Sports Medicine</i> , 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. <i>Sports Medicine</i> , 2021, 51, 1581-1589.	3.1	16
13	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.	3.3	12
14	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.	1.7	47
15	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.	1.4	9
16	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.	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. <i>Journal of the American Medical Directors Association</i> , 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. <i>Journal of Science and Medicine in Sport</i> , 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. <i>British Journal of Sports Medicine</i> , 2018, 52, 276-276.	3.1	86
56	Test-retest reliability of jump execution variables using mechanography: a comparison of jump protocols. <i>Journal of Sports Sciences</i> , 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. <i>American Journal of Human Biology</i> , 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. <i>Journal of Science and Medicine in Sport</i> , 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. <i>British Journal of Sports Medicine</i> , 2018, 52, 1445-1456.	3.1	257
60	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.	1.0	36
61	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.	2.4	2
62	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.	1.2	32
63	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.	0.8	7
64	Cardiorespiratory fitness in children: Evidence for criterion-referenced cut-points. <i>PLoS ONE</i> , 2018, 13, e0201048.	1.1	20
65	Field-based measurement of cardiorespiratory fitness to evaluate physical activity interventions. <i>Bulletin of the World Health Organization</i> , 2018, 96, 794-796.	1.5	41
66	Time changes in the body dimensions of male Australian Army personnel between 1977 and 2012. <i>Applied Ergonomics</i> , 2017, 58, 18-24.	1.7	16
67	Addition of the apical oblique projection increases the detection of acute traumatic shoulder abnormalities in adults. <i>Emergency Radiology</i> , 2017, 24, 329-334.	1.0	4
68	International normative 20m shuttle run values from 142 026 children and youth representing 50 countries. <i>British Journal of Sports Medicine</i> , 2017, 51, 1545-1554.	3.1	179
69	Digit ratio (2D:4D) and muscular strength in adolescent boys. <i>Early Human Development</i> , 2017, 113, 7-9.	0.8	16
70	Relationships between digit ratio (2D:4D) and basketball performance in Australian men. <i>American Journal of Human Biology</i> , 2017, 29, e22937.	0.8	17
71	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.	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. <i>Journal of Sports Science and Medicine</i> , 2017, 16, 230-238.	0.7	1

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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. <i>Sports Medicine</i> , 2012, 42, 267-279.	3.1	33
92	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
93	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> , 2011, 45, 839-848.	3.1	109
94	What proportion of youth are physically active? Measurement issues, levels and recent time trends. <i>British Journal of Sports Medicine</i> , 2011, 45, 859-865.	3.1	236
95	Aerobic fitness and its relationship to sport, exercise training and habitual physical activity during youth. <i>British Journal of Sports Medicine</i> , 2011, 45, 849-858.	3.1	176
96	Aerobic fitness thresholds for cardio metabolic health in children and adolescents. <i>British Journal of Sports Medicine</i> , 2011, 45, 686-687.	3.1	14
97	The importance of site location for girth measurements. <i>Journal of Sports Sciences</i> , 2010, 28, 751-757.	1.0	9
98	Three-dimensional anthropometric analysis: Differences between elite Australian rowers and the general population. <i>Journal of Sports Sciences</i> , 2010, 28, 459-469.	1.0	50
99	Secular changes in body dimensions of Royal Australian Air Force aircrew (1971â€“2005). <i>Ergonomics</i> , 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. <i>Medicine and Sport Science</i> , 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. <i>Journal of Sports Sciences</i> , 2006, 24, 1025-1038.	1.0	183
107	Secular Changes in Anaerobic Test Performance in Australasian Children and Adolescents. <i>Pediatric Exercise Science</i> , 2006, 18, 314-328.	0.5	17
108	Bilateral symmetry and the competitive standard attained in elite and sub-elite sport. <i>Journal of Sports Sciences</i> , 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