Steve Haake

List of Publications by Year
in descending order

83 papers	1,331 citations	331259 21 h-index	377514 34 g-index
85 all docs	85 docs citations	85 times ranked	784 citing authors

#	Article	IF	Citations
1	The understanding and development of cycling aerodynamics. Sports Engineering, 2005, 8, 59-74.	0.5	99
2	The curve kick of a football I: impact with the foot. Sports Engineering, 2002, 5, 183-192.	0.5	95
3	The curve kick of a football II: flight through the air. Sports Engineering, 2002, 5, 193-200.	0.5	88
4	Materials for Sports. MRS Bulletin, 1998, 23, 32-38.	1.7	70
5	The impact of technology on sporting performance in Olympic sports. Journal of Sports Sciences, 2009, 27, 1421-1431.	1.0	70
6	Engineering tennis - slowing the game down. Sports Engineering, 2000, 3, 131-143.	0.5	63
7	Completely automated photoelastic fringe analysis. Optics and Lasers in Engineering, 1994, 21, 133-149.	2.0	50
8	Experimental and finite element analysis of a tennis ball impact on a rigid surface. Sports Engineering, 2005, 8, 145-158.	0.5	43
9	A dynamic model of the breast during exercise. Sports Engineering, 2010, 12, 189-197.	0.5	41
10	The physics of football. Physics World, 1998, 11, 25-28.	0.0	38
11	Strain rate dependence of stiffness and Poisson's ratio of auxetic open cell PU foams. Physica Status Solidi (B): Basic Research, 2007, 244, 955-965.	0.7	35
12	Photoelastic analysis of frozen stressed specimens using spectral-contents analysis. Experimental Mechanics, 1992, 32, 266-272.	1.1	34
13	Aerodynamics of spinning and non-spinning tennis balls. Journal of Wind Engineering and Industrial Aerodynamics, 2004, 92, 935-958.	1.7	33
14	Ball spin generation for oblique impacts with a tennis racket. Experimental Mechanics, 2004, 44, 195-206.	1.1	32
15	Comparison of a finite element model of a tennis racket to experimental data. Sports Engineering, 2009, 12, 87-98.	0.5	30
16	Impact characteristics of the ball and racket during play at the Wimbledon qualifying tournament. Sports Engineering, 2011, 13, 163-170.	0.5	28
17	High-speed observations of football-boot-surface interactions of players in their natural environment. Sports Engineering, 2007, 10, 129-144.	0.5	26
18	Embedding Physical Activity in the Heart of the NHS: The Need for a Whole-System Approach. Sports Medicine, 2016, 46, 939-946.	3.1	25

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19	The dynamic behaviour of cricket balls during impact and variations due to grass and soil type. Sports Engineering, 1999, 2, 145-160.	0.5	24
20	Predicting the playing character of cricket pitches. Sports Engineering, 2005, 8, 193-207.	0.5	24
21	The determination of principal stresses from photoelastic data. Strain, 1992, 28, 153-158.	1.4	23
22	2D and 3D separation of stresses using automated photoelasticity. Experimental Mechanics, 1996, 36, 269-276.	1.1	22
23	The dispersion of birefringence in photoelastic materials. Strain, 1993, 29, 3-7.	1.4	19
24	Influence of full body swimsuits on competitive performance. Procedia Engineering, 2012, 34, 712-717.	1.2	19
25	Measuring the Inertial Properties of a Tennis Racket. Procedia Engineering, 2014, 72, 569-574.	1.2	18
26	Exploring the benefits of participation in community-based running and walking events: a cross-sectional survey of parkrun participants. BMC Public Health, 2021, 21, 1978.	1.2	18
27	How can we get more people with long-term health conditions involved in parkrun? A qualitative study evaluating parkrunâ€™s PROVE project. BMC Sports Science, Medicine and Rehabilitation, 2019, 11, 22.	0.7	17
28	A method to estimate strain in the breast during exercise. Sports Engineering, 2011, 14, 49-56.	0.5	14
29	Does ethnic density influence community participation in mass participation physical activity events? The case of parkrun in England. Wellcome Open Research, 2020, 5, 9.	0.9	13
30	Multiple modulation torque planning for a new golf-swing robot with a skilful wrist turn. Sports Engineering, 2006, 9, 201-208.	0.5	11
31	An analytical model for track cycling. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 143-151.	0.4	11
32	Quantification of gravity-induced skin strain across the breast surface. Clinical Biomechanics, 2017, 50, 47-55.	0.5	11
33	Validated dynamic analysis of real sports equipment using finite element; a case study using tennis rackets. Procedia Engineering, 2010, 2, 3275-3280.	1.2	10
34	The application of evolutionary and maximum entropy algorithms to photoelastic spectral analysis. Experimental Mechanics, 1999, 39, 265-273.	1.1	9
35	Recommendations for estimating the moments of inertia of a tennis racket. Sports Engineering, 2019, 22, 1.	0.5	9
36	A Novel Instrument for Automated Principal Strain Separation in Reflection Photoelasticity. Journal of Testing and Evaluation, 2000, 28, 229-235.	0.4	9

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37	Understanding the influence of population size on athletic performance. Procedia Engineering, 2010, 2, 3183-3189.	1.2	8
38	Validation of a Single Camera, Spatio-temporal Gait Analysis System. Procedia Engineering, 2014, 72, 243-248.	1.2	8
39	A CFD Analysis of Flow Around a Disc. Procedia Engineering, 2014, 72, 685-690.	1.2	8
40	Validation of a live, automatic ball velocity and spin rate finder in tennis. Procedia Engineering, 2010, 2, 2967-2972.	1.2	7
41	Measurement of studded shoeâ€“surface interaction metrics during in situ performance analysis. Sports Engineering, 2015, 18, 105-113.	0.5	7
42	Motivation to Improve Mental Wellbeing via Community Physical Activity Initiatives and the Associated Impactsâ€”A Cross-Sectional Survey of UK parkrun Participants. International Journal of Environmental Research and Public Health, 2021, 18, 13072.	1.2	7
43	Physics, technology and the Olympics. Physics World, 2000, 13, 29-32.	0.0	6
44	Influence of outsole design on centre of rotation during turning movements. Procedia Engineering, 2012, 34, 301-306.	1.2	6
45	An improvement index to quantify the evolution of performance in field events. Journal of Sports Sciences, 2015, 33, 255-267.	1.0	6
46	Materials Have Driven the Historical Development of the Tennis Racket. Applied Sciences (Switzerland), 2019, 9, 4352.	1.3	6
47	Does ethnic density influence community participation in mass participation physical activity events? The case of parkrun in England. Wellcome Open Research, 2020, 5, 9.	0.9	6
48	The health benefits of volunteering at a free, weekly, 5 km event in the UK: A cross-sectional study of volunteers at parkrun. PLOS Global Public Health, 2022, 2, e0000138.	0.5	6
49	parkrun and the promotion of physical activity: insights for primary care clinicians from an online survey. British Journal of General Practice, 2022, 72, e634-e640.	0.7	6
50	The use of photoelasticity to identify surface shear stresses during running. Procedia Engineering, 2010, 2, 3047-3052.	1.2	5
51	Effect of inter-string friction on tennis ball rebound. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2012, 226, 626-635.	1.0	5
52	Can measures of strain and acceleration be used to predict breast discomfort during running?. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2013, 227, 209-216.	0.4	5
53	Ball Spin Generation at the 2007 Wimbledon Qualifying Tournament (P110). , 0, , 571-578.		5
54	Change in health, wellbeing and physical activity levels during the COVID-19 pandemic: a longitudinal cohort of parkrun participants in the United Kingdom. Health Promotion International, 2023, 38, .	0.9	5

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55	Recommendations for Measuring Tennis Racket Parameters. Proceedings (mdpi), 2018, 2, 263.	0.2	4
56	Material advantage?. Physics World, 2012, 25, 26-30.	0.0	3
57	Effect of materials and design on the bending stiffness of tennis rackets. European Journal of Physics, 2021, 42, 065005.	0.3	3
58	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56). , 0, , 291-300.		3
59	The spin decay of sports balls in flight (P172). , 2008, , 165-170.		3
60	Engaging people with long-term health conditions in a community-based physical activity initiative: a qualitative follow-up study evaluating the parkrun PROVE project. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 123.	0.7	3
61	Spin generation during an oblique impact of a compliant ball on a non-compliant surface. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 86-95.	0.4	2
62	Instant Expert: How technology transformed sport. New Scientist, 2012, 215, ii-iii.	0.0	2
63	A Novel Method to Find the Neutral Position of the Breast. Procedia Engineering, 2014, 72, 20-25.	1.2	2
64	Gotta run?. New Scientist, 2020, 245, 34-38.	0.0	2
65	Ball and Racket Movements Recorded at the 2006 Wimbledon Qualifying Tournament (P109). , 0, , 563-569.		2
66	Community event sustainability: why donâ€™t people volunteer?. Voluntary Sector Review, 2020, 11, 137-167.	0.2	2
67	Game, set and slower match. Physics World, 1999, 12, 19-19.	0.0	1
68	EFFECT OF STUD PARAMETERS ON TRACTION. Journal of Biomechanics, 2007, 40, S55.	0.9	1
69	Dynamic modeling of a springboard during a 3 m dive. Procedia Engineering, 2010, 2, 3299-3304.	1.2	1
70	Experimental Validation of a Tennis Ball Finite-element Model for Different Temperatures (P22). , 0, , 125-133.		1
71	A Method To Objectively Gauge The Influence Of Drug Testing Procedures On Athletic Performance. Medicine and Science in Sports and Exercise, 2014, 46, 893.	0.2	1
72	Physics and golf? You must be joking!. Physics World, 1997, 10, 76-76.	0.0	0

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73	Topple dangers posed by free-standing soccer goalposts. Sports Engineering, 2002, 5, 53-63.	0.5	0
74	Sports Engineering Past and Present. Applied Mechanics and Materials, 2004, 1-2, 3-10.	0.2	0
75	Sport Aerodynamics Edited by H. Norstrud Springer-Verlag, Tiergartenstrasse 17, D-69121 Heidelberg, Germany. 2008. 331pp. Illustrated. Â£134. ISBN 978-3-211-89296-1.. Aeronautical Journal, 2010, 114, 610.	1.1	0
76	The effect of technological interventions in sport : do they work?. The Proceedings of the Symposium on Sports and Human Dynamics, 2010, 2010, 479-484.	0.0	0
77	The altitude factor. New Scientist, 2010, 206, 35-37.	0.0	0
78	Instant Expert: Is technology cheating in sports?. New Scientist, 2012, 215, viii.	0.0	0
79	Instant Expert: The physics of sport. New Scientist, 2012, 215, iv-v.	0.0	0
80	Instant Expert: The future of sports engineering. New Scientist, 2012, 215, vi-vii.	0.0	0
81	Technologies to Aid Public Understanding in Running Performance. Proceedings (mdpi), 2020, 49, 26.	0.2	0
82	The Role of Technology in Promoting Physical Activity: A Case-Study of parkrun. Proceedings (mdpi), 2020, 49, .	0.2	0
83	Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post-Glide Actions (P56). , 2009, , 291-300.		0