

Thomas Allen

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

779
citations

840776

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h-index

552781

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g-index

55
all docs

55
docs citations

55
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphometrics for sports mechanics: Showcasing tennis racket shape diversity. PLoS ONE, 2022, 17, e0263120.	2.5	2
2	Effectiveness of hard inserts in sports mouthguards: a systematic review. British Dental Journal, 2022, , ,	0.6	1
3	Developments on auxetic closed cell foam pressure vessel fabrications. Smart Materials and Structures, 2022, 31, 074002.	3.5	8
4	Effect of Compressive Strain Rate on Auxetic Foam. Applied Sciences (Switzerland), 2021, 11, 1207.	2.5	10
5	Wearables for disabled and extreme sports. , 2021, , 253-273.		4
6	Fabrication, characterization and analytical modeling of gradient auxetic closed cell foams. Smart Materials and Structures, 2021, 30, 035014.	3.5	12
7	New initiative: "Ten Questions in Sports Engineering" papers. Sports Engineering, 2021, 24, 1.	1.1	0
8	Effect of materials and design on the bending stiffness of tennis rackets. European Journal of Physics, 2021, 42, 065005.	0.6	3
9	Effect of steam conversion on the cellular structure, Young's modulus and negative Poisson's ratio of closed-cell foam. Smart Materials and Structures, 2021, 30, 015031.	3.5	11
10	Quantifying wrist angular excursion on impact for Jab and Hook lead arm shots in boxing. Sports Biomechanics, 2021, , 1-13.	1.6	3
11	Accuracy and repeatability of wrist joint angles in boxing using an electromagnetic tracking system. Sports Engineering, 2020, 23, 1.	1.1	7
12	A review of silhouette extraction algorithms for use within visual hull pipelines. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 649-670.	1.9	5
13	FISHnet: Learning to Segment the Silhouettes of Swimmers. IEEE Access, 2020, 8, 178311-178321.	4.2	5
14	Efficacy of Density in Predicting the Protective Properties of Padded Clothing in Rugby. Proceedings (mdpi), 2020, 49, 38.	0.2	1
15	How to write a manuscript for Sports Engineering. Sports Engineering, 2020, 23, 1.	1.1	1
16	Measuring behavior in sport and exercise. Sports Engineering, 2020, 23, 1.	1.1	1
17	Effect of Surrogate Surface Compliance on the Measured Stiffness of Snowboarding Wrist Protectors. Proceedings (mdpi), 2020, 49, 84.	0.2	1
18	Use of Video for Teaching Sports Mechanics. Proceedings (mdpi), 2020, 49, 112.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Plantar Pressure Distribution under Uniform and Gradient Foam during Running and Jumping. Proceedings (mdpi), 2020, 49, .	0.2	1
20	Effect of Rest Periods on Mechanical Ageing of Running Shoes. Proceedings (mdpi), 2020, 49, .	0.2	0
21	Validation of a Finite Element Modeling Process for Auxetic Structures under Impact. Physica Status Solidi (B): Basic Research, 2020, 257, 1900197.	1.5	34
22	Recommendations for estimating the moments of inertia of a tennis racket. Sports Engineering, 2019, 22, 1.	1.1	9
23	Sports Materials Special Issue Editorial. Applied Sciences (Switzerland), 2019, 9, 5272.	2.5	0
24	Materials Have Driven the Historical Development of the Tennis Racket. Applied Sciences (Switzerland), 2019, 9, 4352.	2.5	6
25	Effects of Heat Exposure and Volumetric Compression on Poisson's Ratios, Young's Moduli, and Polymeric Composition During Thermo-Mechanical Conversion of Auxetic Open Cell Polyurethane Foam. Physica Status Solidi (B): Basic Research, 2019, 256, 1800393.	1.5	23
26	Effect of surrogate design on the measured stiffness of snowboarding wrist protectors. Sports Engineering, 2018, 21, 217-225.	1.1	8
27	Resources for sports engineering education. Sports Engineering, 2018, 21, 245-253.	1.1	7
28	Single view silhouette fitting techniques for estimating tennis racket position. Sports Engineering, 2018, 21, 137-147.	1.1	10
29	Sports engineering education. Sports Engineering, 2018, 21, 243-243.	1.1	0
30	Tennis Equipment and Technique Interactions on Risk of Overuse Injuries. , 2018, , 61-79.		5
31	Finite Element Model of an Impact on a Palmar Pad from a Snowboard Wrist Protector. Proceedings (mdpi), 2018, 2, 314.	0.2	1
32	Controlling Density and Modulus in Auxetic Foam Fabricationsâ€™ Implications for Impact and Indentation Testing. Proceedings (mdpi), 2018, 2, 250.	0.2	6
33	Review of Auxetic Materials for Sports Applications: Expanding Options in Comfort and Protection. Applied Sciences (Switzerland), 2018, 8, 941.	2.5	188
34	Recommendations for Measuring Tennis Racket Parameters. Proceedings (mdpi), 2018, 2, 263.	0.2	4
35	Application of Auxetic Foam in Sports Helmets. Applied Sciences (Switzerland), 2018, 8, 354.	2.5	72
36	The Application of Auxetic Material for Protective Sports Apparel. Proceedings (mdpi), 2018, 2, .	0.2	13

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37	Fabrication of Auxetic Foam Sheets for Sports Applications. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700596.	1.5	46
38	Winter sports special issue. <i>Sports Engineering</i> , 2017, 20, 243-244.	1.1	2
39	Auxetic Foam for Snow-Sport Safety Devices. , 2017, , 145-159.		12
40	Quasi-static characterisation and impact testing of auxetic foam for sports safety applications. <i>Smart Materials and Structures</i> , 2016, 25, 054014.	3.5	54
41	Use of Image Based Sports Case Studies for Teaching Mechanics. <i>Procedia Engineering</i> , 2016, 147, 884-889.	1.2	4
42	Development of a Method for Measuring Quasi-static Stiffness of Snowboard Wrist Protectors. <i>Procedia Engineering</i> , 2016, 147, 378-383.	1.2	10
43	A Comparison of Novel and Conventional Fabrication Methods for Auxetic Foams for Sports Safety Applications. <i>Procedia Engineering</i> , 2016, 147, 384-389.	1.2	41
44	A review of tennis racket performance parameters. <i>Sports Engineering</i> , 2016, 19, 1-11.	1.1	29
45	Auxetic Foams for Sport Safety Applications. <i>Procedia Engineering</i> , 2015, 112, 104-109.	1.2	37
46	Finite Element Model of a Cricket Ball Impacting a Bat. <i>Procedia Engineering</i> , 2014, 72, 521-526.	1.2	8
47	Effect of string bed pattern on ball spin generation from a tennis racket. <i>Sports Engineering</i> , 2013, 16, 181-188.	1.1	7
48	Effect of inter-string friction on tennis ball rebound. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2012, 226, 626-635.	1.8	5
49	Special issue on predictive modelling in sport. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2012, 226, 75-76.	0.7	2
50	Characterising the impact performance of field hockey sticks. <i>Sports Engineering</i> , 2012, 15, 221-226.	1.1	4
51	Effect of tennis racket parameters on a simulated groundstroke. <i>Journal of Sports Sciences</i> , 2011, 29, 311-325.	2.0	21
52	Comparison of a finite element model of a tennis racket to experimental data. <i>Sports Engineering</i> , 2009, 12, 87-98.	1.1	30
53	Impact testing of snowboarding wrist protectors. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 0, , 175433712110547.	0.7	1