

Thomas Allen

List of Publications by Year in descending order

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papers

779
citations

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docs citations

55
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Auxetic Materials for Sports Applications: Expanding Options in Comfort and Protection. Applied Sciences (Switzerland), 2018, 8, 941.	2.5	188
2	Application of Auxetic Foam in Sports Helmets. Applied Sciences (Switzerland), 2018, 8, 354.	2.5	72
3	Quasi-static characterisation and impact testing of auxetic foam for sports safety applications. Smart Materials and Structures, 2016, 25, 054014.	3.5	54
4	Fabrication of Auxetic Foam Sheets for Sports Applications. Physica Status Solidi (B): Basic Research, 2017, 254, 1700596.	1.5	46
5	A Comparison of Novel and Conventional Fabrication Methods for Auxetic Foams for Sports Safety Applications. Procedia Engineering, 2016, 147, 384-389.	1.2	41
6	Auxetic Foams for Sport Safety Applications. Procedia Engineering, 2015, 112, 104-109.	1.2	37
7	Validation of a Finite Element Modeling Process for Auxetic Structures under Impact. Physica Status Solidi (B): Basic Research, 2020, 257, 1900197.	1.5	34
8	Comparison of a finite element model of a tennis racket to experimental data. Sports Engineering, 2009, 12, 87-98.	1.1	30
9	A review of tennis racket performance parameters. Sports Engineering, 2016, 19, 1-11.	1.1	29
10	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
11	Effect of tennis racket parameters on a simulated groundstroke. Journal of Sports Sciences, 2011, 29, 311-325.	2.0	21
12	The Application of Auxetic Material for Protective Sports Apparel. Proceedings (mdpi), 2018, 2, .	0.2	13
13	Fabrication, characterization and analytical modeling of gradient auxetic closed cell foams. Smart Materials and Structures, 2021, 30, 035014.	3.5	12
14	Auxetic Foam for Snow-Sport Safety Devices. , 2017, , 145-159.		12
15	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
16	Development of a Method for Measuring Quasi-static Stiffness of Snowboard Wrist Protectors. Procedia Engineering, 2016, 147, 378-383.	1.2	10
17	Single view silhouette fitting techniques for estimating tennis racket position. Sports Engineering, 2018, 21, 137-147.	1.1	10
18	Effect of Compressive Strain Rate on Auxetic Foam. Applied Sciences (Switzerland), 2021, 11, 1207.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Recommendations for estimating the moments of inertia of a tennis racket. Sports Engineering, 2019, 22, 1.	1.1	9
20	Finite Element Model of a Cricket Ball Impacting a Bat. Procedia Engineering, 2014, 72, 521-526.	1.2	8
21	Effect of surrogate design on the measured stiffness of snowboarding wrist protectors. Sports Engineering, 2018, 21, 217-225.	1.1	8
22	Developments on auxetic closed cell foam pressure vessel fabrications. Smart Materials and Structures, 2022, 31, 074002.	3.5	8
23	Effect of string bed pattern on ball spin generation from a tennis racket. Sports Engineering, 2013, 16, 181-188.	1.1	7
24	Resources for sports engineering education. Sports Engineering, 2018, 21, 245-253.	1.1	7
25	Accuracy and repeatability of wrist joint angles in boxing using an electromagnetic tracking system. Sports Engineering, 2020, 23, 1.	1.1	7
26	Controlling Density and Modulus in Auxetic Foam Fabricationsâ€™ Implications for Impact and Indentation Testing. Proceedings (mdpi), 2018, 2, 250.	0.2	6
27	Materials Have Driven the Historical Development of the Tennis Racket. Applied Sciences (Switzerland), 2019, 9, 4352.	2.5	6
28	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.	1.8	5
29	Tennis Equipment and Technique Interactions on Risk of Overuse Injuries. , 2018, , 61-79.		5
30	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
31	FISHnet: Learning to Segment the Silhouettes of Swimmers. IEEE Access, 2020, 8, 178311-178321.	4.2	5
32	Characterising the impact performance of field hockey sticks. Sports Engineering, 2012, 15, 221-226.	1.1	4
33	Use of Image Based Sports Case Studies for Teaching Mechanics. Procedia Engineering, 2016, 147, 884-889.	1.2	4
34	Recommendations for Measuring Tennis Racket Parameters. Proceedings (mdpi), 2018, 2, 263.	0.2	4
35	Wearables for disabled and extreme sports. , 2021, , 253-273.		4
36	Effect of materials and design on the bending stiffness of tennis rackets. European Journal of Physics, 2021, 42, 065005.	0.6	3

#	ARTICLE	IF	CITATIONS
37	Quantifying wrist angular excursion on impact for Jab and Hook lead arm shots in boxing. Sports Biomechanics, 2021, , 1-13.	1.6	3
38	Special issue on predictive modelling in sport. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 75-76.	0.7	2
39	Winter sports special issue. Sports Engineering, 2017, 20, 243-244.	1.1	2
40	Use of Video for Teaching Sports Mechanics. Proceedings (mdpi), 2020, 49, 112.	0.2	2
41	Morphometrics for sports mechanics: Showcasing tennis racket shape diversity. PLoS ONE, 2022, 17, e0263120.	2.5	2
42	Finite Element Model of an Impact on a Palmar Pad from a Snowboard Wrist Protector. Proceedings (mdpi), 2018, 2, 314.	0.2	1
43	Efficacy of Density in Predicting the Protective Properties of Padded Clothing in Rugby. Proceedings (mdpi), 2020, 49, 38.	0.2	1
44	How to write a manuscript for Sports Engineering. Sports Engineering, 2020, 23, 1.	1.1	1
45	Measuring behavior in sport and exercise. Sports Engineering, 2020, 23, 1.	1.1	1
46	Effect of Surrogate Surface Compliance on the Measured Stiffness of Snowboarding Wrist Protectors. Proceedings (mdpi), 2020, 49, 84.	0.2	1
47	Plantar Pressure Distribution under Uniform and Gradient Foam during Running and Jumping. Proceedings (mdpi), 2020, 49, .	0.2	1
48	Impact testing of snowboarding wrist protectors. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 0, , 175433712110547.	0.7	1
49	Effectiveness of hard inserts in sports mouthguards: a systematic review. British Dental Journal, 2022, , .	0.6	1
50	Sports engineering education. Sports Engineering, 2018, 21, 243-243.	1.1	0
51	Sports Materials Special Issue Editorial. Applied Sciences (Switzerland), 2019, 9, 5272.	2.5	0
52	Effect of Rest Periods on Mechanical Ageing of Running Shoes. Proceedings (mdpi), 2020, 49, .	0.2	0
53	New initiative: "Ten Questions in Sports Engineering" papers. Sports Engineering, 2021, 24, 1.	1.1	0