

Thomas B Hoshizaki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

824
citations

16
h-index

27
g-index

61
ext. papers

920
ext. citations

2.1
avg, IF

4.75
L-index

#	Paper	IF	Citations
61	Investigation of an Ice Hockey Helmet Test Protocol Representing Three Concussion Event Types. <i>Journal of Testing and Evaluation</i> , 2022 , 50, 20200436	1	
60	Evaluation of two rotational helmet technologies to decrease peak rotational acceleration in cycling helmets.. <i>Scientific Reports</i> , 2022 , 12, 7735	4.9	0
59	The influence of impact surface on head kinematics and brain tissue response during impacts with equestrian helmets. <i>Sports Biomechanics</i> , 2021 , 20, 737-750	2.2	1
58	Biomechanical comparison of concussions with and without a loss of consciousness in elite American football: implications for prevention. <i>Sports Biomechanics</i> , 2021 , 20, 751-767	2.2	4
57	Influence of play type on the magnitude and number of head impacts sustained in youth American football. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 1-16	2.1	
56	Comparison of head impact frequency and magnitude in youth tackle football and ice hockey. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 1-16	2.1	
55	Brain trauma characteristics for lightweight and heavyweight fighters in professional mixed martial arts. <i>Sports Biomechanics</i> , 2021 , 1-23	2.2	1
54	Evaluation of amplitude- and frequency-based techniques for attenuating inertia-based movement artifact during surface translation perturbations. <i>Gait and Posture</i> , 2021 , 86, 299-302	2.6	
53	A preliminary examination of the relationship between biomechanical measures and structural changes in the brain. <i>Trauma</i> , 2021 , 23, 24-32	0.3	5
52	Biomechanics of Sport-Related Neurological Injury. <i>Clinics in Sports Medicine</i> , 2021 , 40, 19-38	2.6	2
51	Comparison of frequency and magnitude of head impacts experienced by Peewee boys and girls in games of youth ice hockey. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 24, 1-13	2.1	7
50	Parametric study of impact parameters on peak head acceleration and strain for collision impacts in sport. <i>International Journal of Crashworthiness</i> , 2021 , 26, 16-25	1	3
49	A parametric analysis of factors that determine head injury outcomes following equestrian fall accidents. <i>International Journal of Crashworthiness</i> , 2021 , 26, 295-308	1	0
48	Exposure to brain trauma in six age divisions of minor ice hockey. <i>Journal of Biomechanics</i> , 2021 , 116, 110203	2.9	3
47	Protective capacity of ice hockey helmets at different levels of striking compliance. <i>Sports Engineering</i> , 2020 , 23, 1	1.4	3
46	A comparison of frequency and magnitude of head impacts between Pee Wee And Bantam youth ice hockey. <i>Sports Biomechanics</i> , 2020 , 1-24	2.2	7
45	Effects of surface compliance on the dynamic response and strains sustained by a player's helmeted head during ice hockey impacts. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2020 , 234, 98-106	0.7	2

44	Simulated brain strains resulting from falls differ between concussive events of young children and adults. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 500-509	2.1	2
43	A novel repetitive head impact exposure measurement tool differentiates player position in National Football League. <i>Scientific Reports</i> , 2020 , 10, 1200	4.9	16
42	Development of a test method for adult ice hockey helmet evaluation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 1-13	2.1	3
41	Could a Compliant Foam Anvil Characterize the Biofidelic Impact Response of Equestrian Helmets?. <i>Journal of Biomechanical Engineering</i> , 2020 , 142,	2.1	3
40	Comparing concussion rates as reported by hockey Canada with head contact events as observed across minor ice-hockey age categories. <i>Journal of Concussion</i> , 2020 , 4, 205970022091128	1	2
39	Equestrian Helmet Standards: Do They Represent Real-World Accident Conditions?. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 2247-2267	4.7	4
38	Accident reconstructions of falls, collisions, and punches in sports. <i>Journal of Concussion</i> , 2020 , 4, 205970022093695		
37	Event-specific impact test protocol for ice hockey goaltender masks. <i>Sports Biomechanics</i> , 2020 , 19, 510-531		3
36	Comparing two proposed protocols to test the oblique response of cycling helmets to fall impacts. <i>International Journal of Crashworthiness</i> , 2020 , 25, 648-663	1	2
35	Proposed injury thresholds for concussion in equestrian sports. <i>Journal of Science and Medicine in Sport</i> , 2020 , 23, 222-236	4.4	11
34	A three-dimensional finite element model of a 6-year-old child for simulating brain response from physical reconstructions of head impacts. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2019 , 233, 277-291	0.7	1
33	The influence of impact force redistribution and redirection on maximum principal strain for helmeted head impacts. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 1047-1060	2.1	3
32	Head dynamic response and brain tissue deformation for boxing punches with and without loss of consciousness. <i>Clinical Biomechanics</i> , 2019 , 67, 96-101	2.2	9
31	The biomechanics of concussion for ice hockey head impact events. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 631-643	2.1	24
30	The influence of impact source on variables associated with strain for impacts in ice hockey. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019 , 22, 713-726	2.1	2
29	Abnormal Motor Response Associated With Concussive Injuries: Biomechanical Comparison Between Impact Seizures and Loss of Consciousness. <i>Journal of Athletic Training</i> , 2019 , 54, 765-771	4	10
28	Brain tissue strain and balance impairments in children following a concussion: An exploratory study. <i>Journal of Concussion</i> , 2019 , 3, 205970021988923	1	1
27	Interaction of impact parameters for simulated falls in sport using three different sized Hybrid III headforms. <i>International Journal of Crashworthiness</i> , 2019 , 24, 326-335	1	10

26	Analysis of speed accuracy using video analysis software. <i>Sports Engineering</i> , 2018 , 21, 235-241	1.4	31
25	Distribution of Brain Strain in the Cerebrum for Ice Hockey Goaltender Impacts. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	5
24	Falls resulting in mild traumatic brain injury and focal traumatic brain injury: a biomechanical analysis. <i>International Journal of Crashworthiness</i> , 2018 , 23, 278-289	1	6
23	Concussive and subconcussive brain trauma: the complexity of impact biomechanics and injury risk in contact sport. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2018 , 158, 39-49	3	13
22	Comparative analysis of Hybrid III neckform and an unbiased neckform. <i>Sports Engineering</i> , 2018 , 21, 479-485	1.4	32
21	The effect of acceleration signal processing for head impact numeric simulations. <i>Sports Engineering</i> , 2017 , 20, 111-119	1.4	16
20	Pediatric concussion: biomechanical differences between outcomes of transient and persistent (> 4 weeks) postconcussion symptoms. <i>Journal of Neurosurgery: Pediatrics</i> , 2017 , 19, 641-651	2.1	16
19	Peak linear and rotational acceleration magnitude and duration effects on maximum principal strain in the corpus callosum for sport impacts. <i>Journal of Biomechanics</i> , 2017 , 61, 183-192	2.9	26
18	Protective capacity of an ice hockey goaltender helmet for three events associated with concussion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017 , 20, 1299-1311	2.1	15
17	The development of a threshold curve for the understanding of concussion in sport. <i>Trauma</i> , 2017 , 19, 196-206	0.3	31
16	Protective Capacity of Ice Hockey Helmets against Different Impact Events. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3693-3704	4.7	28
15	Rotational acceleration, brain tissue strain, and the relationship to concussion. <i>Journal of Biomechanical Engineering</i> , 2015 , 137,	2.1	56
14	The dynamic response characteristics of traumatic brain injury. <i>Accident Analysis and Prevention</i> , 2015 , 79, 33-40	6.1	9
13	A comparison of head dynamic response and brain tissue stress and strain using accident reconstructions for concussion, concussion with persistent postconcussive symptoms, and subdural hematoma. <i>Journal of Neurosurgery</i> , 2015 , 123, 415-22	3.2	36
12	Characterization of persistent concussive syndrome using injury reconstruction and finite element modelling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 41, 325-35	4.1	48
11	Defining the effective impact mass of elbow and shoulder strikes in ice hockey. <i>Sports Biomechanics</i> , 2015 , 14, 57-67	2.2	38
10	The influence of dynamic response and brain deformation metrics on the occurrence of subdural hematoma in different regions of the brain. <i>Journal of Neurosurgery</i> , 2014 , 120, 453-61	3.2	26
9	Current and future concepts in helmet and sports injury prevention. <i>Neurosurgery</i> , 2014 , 75 Suppl 4, S136-48	3.4	46

8	Differences in region-specific brain tissue stress and strain due to impact velocity for simulated American football impacts. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2014 , 228, 276-286	0.7	6
7	The Influence of Impactor Mass on the Dynamic Response of the Hybrid III Headform and Brain Tissue Deformation 2014 , 23-40		12
6	Comparison between Hybrid III and HodgsonWSU headforms by linear and angular dynamic impact response. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2012 , 226, 260-265	0.7	15
5	Analysis of the influence of independent variables used for reconstruction of a traumatic brain injury incident. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2012 , 226, 290-298	0.7	6
4	The influence of impact location and angle on the dynamic impact response of a Hybrid III headform. <i>Sports Engineering</i> , 2011 , 13, 135-143	1.4	54
3	Estimating the influence of neckform compliance on brain tissue strain during a Helmeted impact. <i>Stapp Car Crash Journal</i> , 2010 , 54, 37-48	1	7
2	Compressive properties of helmet materials subjected to dynamic impact loading of various energies. <i>European Journal of Sport Science</i> , 2008 , 8, 341-349	3.9	26
1	The science and design of head protection in sport. <i>Neurosurgery</i> , 2004 , 55, 956-66; discussion 966-7	3.2	75