

# Thomas B Hoshizaki

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3613260/thomas-b-hoshizaki-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The science and design of head protection in sport. <i>Neurosurgery</i> , <b>2004</b> , 55, 956-66; discussion 966-7	3.2	75
60	Rotational acceleration, brain tissue strain, and the relationship to concussion. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137,	2.1	56
59	The influence of impact location and angle on the dynamic impact response of a Hybrid III headform. <i>Sports Engineering</i> , <b>2011</b> , 13, 135-143	1.4	54
58	Characterization of persistent concussive syndrome using injury reconstruction and finite element modelling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2015</b> , 41, 325-35	4.1	48
57	Current and future concepts in helmet and sports injury prevention. <i>Neurosurgery</i> , <b>2014</b> , 75 Suppl 4, S136-48	3.4	46
56	Defining the effective impact mass of elbow and shoulder strikes in ice hockey. <i>Sports Biomechanics</i> , <b>2015</b> , 14, 57-67	2.2	38
55	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> , <b>2015</b> , 123, 415-22	3.2	36
54	Comparative analysis of Hybrid III neckform and an unbiased neckform. <i>Sports Engineering</i> , <b>2018</b> , 21, 479-485	1.4	32
53	Analysis of speed accuracy using video analysis software. <i>Sports Engineering</i> , <b>2018</b> , 21, 235-241	1.4	31
52	The development of a threshold curve for the understanding of concussion in sport. <i>Trauma</i> , <b>2017</b> , 19, 196-206	0.3	31
51	Protective Capacity of Ice Hockey Helmets against Different Impact Events. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 3693-3704	4.7	28
50	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> , <b>2017</b> , 61, 183-192	2.9	26
49	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> , <b>2014</b> , 120, 453-61	3.2	26
48	Compressive properties of helmet materials subjected to dynamic impact loading of various energies. <i>European Journal of Sport Science</i> , <b>2008</b> , 8, 341-349	3.9	26
47	The biomechanics of concussion for ice hockey head impact events. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2019</b> , 22, 631-643	2.1	24
46	The effect of acceleration signal processing for head impact numeric simulations. <i>Sports Engineering</i> , <b>2017</b> , 20, 111-119	1.4	16
45	Pediatric concussion: biomechanical differences between outcomes of transient and persistent (> 4 weeks) postconcussion symptoms. <i>Journal of Neurosurgery: Pediatrics</i> , <b>2017</b> , 19, 641-651	2.1	16

44	A novel repetitive head impact exposure measurement tool differentiates player position in National Football League. <i>Scientific Reports</i> , <b>2020</b> , 10, 1200	4.9	16
43	Protective capacity of an ice hockey goaltender helmet for three events associated with concussion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2017</b> , 20, 1299-1311	2.1	15
42	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> , <b>2012</b> , 226, 260-265	0.7	15
41	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> , <b>2018</b> , 158, 39-49	3	13
40	The Influence of Impactor Mass on the Dynamic Response of the Hybrid III Headform and Brain Tissue Deformation <b>2014</b> , 23-40		12
39	Proposed injury thresholds for concussion in equestrian sports. <i>Journal of Science and Medicine in Sport</i> , <b>2020</b> , 23, 222-236	4.4	11
38	Abnormal Motor Response Associated With Concussive Injuries: Biomechanical Comparison Between Impact Seizures and Loss of Consciousness. <i>Journal of Athletic Training</i> , <b>2019</b> , 54, 765-771	4	10
37	Interaction of impact parameters for simulated falls in sport using three different sized Hybrid III headforms. <i>International Journal of Crashworthiness</i> , <b>2019</b> , 24, 326-335	1	10
36	Head dynamic response and brain tissue deformation for boxing punches with and without loss of consciousness. <i>Clinical Biomechanics</i> , <b>2019</b> , 67, 96-101	2.2	9
35	The dynamic response characteristics of traumatic brain injury. <i>Accident Analysis and Prevention</i> , <b>2015</b> , 79, 33-40	6.1	9
34	A comparison of frequency and magnitude of head impacts between Pee Wee And Bantam youth ice hockey. <i>Sports Biomechanics</i> , <b>2020</b> , 1-24	2.2	7
33	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> , <b>2021</b> , 24, 1-13	2.1	7
32	Estimating the influence of neckform compliance on brain tissue strain during a Helmeted impact. <i>Stapp Car Crash Journal</i> , <b>2010</b> , 54, 37-48	1	7
31	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> , <b>2014</b> , 228, 276-286	0.7	6
30	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> , <b>2012</b> , 226, 290-298	0.7	6
29	Falls resulting in mild traumatic brain injury and focal traumatic brain injury: a biomechanical analysis. <i>International Journal of Crashworthiness</i> , <b>2018</b> , 23, 278-289	1	6
28	Distribution of Brain Strain in the Cerebrum for Ice Hockey Goaltender Impacts. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> ,	2.1	5
27	A preliminary examination of the relationship between biomechanical measures and structural changes in the brain. <i>Trauma</i> , <b>2021</b> , 23, 24-32	0.3	5

26	Biomechanical comparison of concussions with and without a loss of consciousness in elite American football: implications for prevention. <i>Sports Biomechanics</i> , <b>2021</b> , 20, 751-767	2.2	4
25	Equestrian Helmet Standards: Do They Represent Real-World Accident Conditions?. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2247-2267	4.7	4
24	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> , <b>2019</b> , 22, 1047-1060	2.1	3
23	Protective capacity of ice hockey helmets at different levels of striking compliance. <i>Sports Engineering</i> , <b>2020</b> , 23, 1	1.4	3
22	Development of a test method for adult ice hockey helmet evaluation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2020</b> , 1-13	2.1	3
21	Could a Compliant Foam Anvil Characterize the Biofidelic Impact Response of Equestrian Helmets?. <i>Journal of Biomechanical Engineering</i> , <b>2020</b> , 142,	2.1	3
20	Event-specific impact test protocol for ice hockey goaltender masks. <i>Sports Biomechanics</i> , <b>2020</b> , 19, 510-531	2.3	3
19	Parametric study of impact parameters on peak head acceleration and strain for collision impacts in sport. <i>International Journal of Crashworthiness</i> , <b>2021</b> , 26, 16-25	1	3
18	Exposure to brain trauma in six age divisions of minor ice hockey. <i>Journal of Biomechanics</i> , <b>2021</b> , 116, 110203	2.9	3
17	The influence of impact source on variables associated with strain for impacts in ice hockey. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2019</b> , 22, 713-726	2.1	2
16	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> , <b>2020</b> , 234, 98-106	0.7	2
15	Simulated brain strains resulting from falls differ between concussive events of young children and adults. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2020</b> , 23, 500-509	2.1	2
14	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> , <b>2020</b> , 4, 205970022091128	1	2
13	Comparing two proposed protocols to test the oblique response of cycling helmets to fall impacts. <i>International Journal of Crashworthiness</i> , <b>2020</b> , 25, 648-663	1	2
12	Biomechanics of Sport-Related Neurological Injury. <i>Clinics in Sports Medicine</i> , <b>2021</b> , 40, 19-38	2.6	2
11	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> , <b>2019</b> , 233, 277-291	0.7	1
10	The influence of impact surface on head kinematics and brain tissue response during impacts with equestrian helmets. <i>Sports Biomechanics</i> , <b>2021</b> , 20, 737-750	2.2	1
9	Accident reconstructions of falls, collisions, and punches in sports. <i>Journal of Concussion</i> , <b>2020</b> , 4, 205970022093695	2.3	1

8	Brain trauma characteristics for lightweight and heavyweight fighters in professional mixed martial arts. <i>Sports Biomechanics</i> , <b>2021</b> , 1-23	2.2	1
7	Brain tissue strain and balance impairments in children following a concussion: An exploratory study. <i>Journal of Concussion</i> , <b>2019</b> , 3, 205970021988923	1	1
6	A parametric analysis of factors that determine head injury outcomes following equestrian fall accidents. <i>International Journal of Crashworthiness</i> , <b>2021</b> , 26, 295-308	1	0
5	Evaluation of two rotational helmet technologies to decrease peak rotational acceleration in cycling helmets.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7735	4.9	0
4	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> , <b>2021</b> , 1-16	2.1	
3	Comparison of head impact frequency and magnitude in youth tackle football and ice hockey. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2021</b> , 1-16	2.1	
2	Investigation of an Ice Hockey Helmet Test Protocol Representing Three Concussion Event Types. <i>Journal of Testing and Evaluation</i> , <b>2022</b> , 50, 20200436	1	
1	Evaluation of amplitude- and frequency-based techniques for attenuating inertia-based movement artifact during surface translation perturbations. <i>Gait and Posture</i> , <b>2021</b> , 86, 299-302	2.6	