Andrew Post

List of Publications by Year
in descending order

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68 papers	1,245 citations	411340 20 h-index	466096 32 g-index
68 all docs	68 docs citations	68 times ranked	735 citing authors

#	Article	IF	Citations
1	Investigation of an Ice Hockey Helmet Test Protocol Representing Three Concussion Event Types. Journal of Testing and Evaluation, 2022, 50, 465-478.	0.4	2
2	A preliminary examination of the relationship between biomechanical measures and structural changes in the brain. Trauma, 2021, 23, 24-32.	0.2	9
3	Comparison of frequency and magnitude of head impacts experienced by Peewee boys and girls in games of youth ice hockey. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1-13.	0.9	9
4	A parametric analysis of factors that determine head injury outcomes following equestrian fall accidents. International Journal of Crashworthiness, 2021, 26, 295-308.	1.1	1
5	Exposure to brain trauma in six age divisions of minor ice hockey. Journal of Biomechanics, 2021, 116, 110203.	0.9	6
6	Brain trauma characteristics for lightweight and heavyweight fighters in professional mixed martial arts. Sports Biomechanics, 2021, , 1-23.	0.8	4
7	Intracranial Displacement Measurements Within Targeted Anatomical Regions of a Postmortem Human Surrogate Brain Subjected to Impact. Annals of Biomedical Engineering, 2021, 49, 2836-2851.	1.3	7
8	Comparison of head impact frequency and magnitude in youth tackle football and ice hockey. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-16.	0.9	0
9	Influence of play type on the magnitude and number of head impacts sustained in youth American football. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-16.	0.9	0
10	Comparing two proposed protocols to test the oblique response of cycling helmets to fall impacts. International Journal of Crashworthiness, 2020, 25, 648-663.	1.1	4
11	A preliminary analysis of biomechanics and saccadic responses for concussion. Trauma, 2020, 22, 182-192.	0.2	1
12	Proposed injury thresholds for concussion in equestrian sports. Journal of Science and Medicine in Sport, 2020, 23, 222-236.	0.6	23
13	Comparing concussion rates as reported by hockey Canada with head contact events as observed across minor ice-hockey age categories. Journal of Concussion, 2020, 4, 205970022091128.	0.2	4
14	Protective capacity of ice hockey helmets at different levels of striking compliance. Sports Engineering, 2020, 23, 1.	0.5	5
15	A comparison of frequency and magnitude of head impacts between Pee Wee And Bantam youth ice hockey. Sports Biomechanics, 2020, , 1-24.	0.8	9
16	Effects of surface compliance on the dynamic response and strains sustained by a playerâ€™s helmeted head during ice hockey impacts. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2020, 234, 98-106.	0.4	3
17	The relationship between directional components of dynamic response and maximum principal strain for impacts to an American football helmet. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2020, 234, 193-204.	0.4	0
18	Development of a test method for adult ice hockey helmet evaluation. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 690-702.	0.9	10

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19	Could a Compliant Foam Anvil Characterize the Biofidelic Impact Response of Equestrian Helmets?. Journal of Biomechanical Engineering, 2020, 142, .	0.6	7
20	Biomechanical Comparison of Real World Concussive Impacts in Children, Adolescents, and Adults. Journal of Biomechanical Engineering, 2020, 142, .	0.6	3
21	Comparison of Head Impact Frequency and Magnitude for Midget and Junior Ice Hockey Players to Inform Safety and Policy. , 2020, , 21-44.		0
22	The effect of a novel impact management strategy on maximum principal strain for reconstructions of American football concussive events. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2019, 233, 503-513.	0.4	6
23	The influence of impact surface on head kinematics and brain tissue response during impacts with equestrian helmets. Sports Biomechanics, 2019, 20, 1-14.	0.8	4
24	The biomechanics of concussion for ice hockey head impact events. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 631-643.	0.9	29
25	The influence of impact source on variables associated with strain for impacts in ice hockey. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 713-726.	0.9	4
26	Brain tissue strain and balance impairments in children following a concussion: An exploratory study. Journal of Concussion, 2019, 3, 205970021988923.	0.2	1
27	A biomechanical analysis of traumatic brain injury for slips and falls from height. Trauma, 2019, 21, 27-34.	0.2	3
28	Comparison of Ice Hockey Goaltender Helmets for Concussion Type Impacts. Annals of Biomedical Engineering, 2018, 46, 986-1000.	1.3	14
29	Analysis of speed accuracy using video analysis software. Sports Engineering, 2018, 21, 235-241.	0.5	39
30	Comparison of two anthropomorphic test devices using brain motion. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2018, 232, 305-314.	0.4	3
31	Brain tissue analysis of impacts to American football helmets. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 264-277.	0.9	10
32	Falls resulting in mild traumatic brain injury and focal traumatic brain injury: a biomechanical analysis. International Journal of Crashworthiness, 2018, 23, 278-289.	1.1	6
33	Comparative analysis of Hybrid III neckform and an unbiased neckform. Sports Engineering, 2018, 21, 479-485.	0.5	37
34	Distribution of Brain Strain in the Cerebrum for Laboratory Impacts to Ice Hockey Goaltender Masks. Journal of Biomechanical Engineering, 2018, 140, .	0.6	10
35	An examination of the current National Operating Committee on Standards for Athletic Equipment system and a new pneumatic ram method for evaluating American football helmet performance to reduce risk of concussion. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2017, 231, 83-90.	0.4	4
36	A comparison in a youth population between those with and without a history of concussion using biomechanical reconstruction. Journal of Neurosurgery: Pediatrics, 2017, 19, 502-510.	0.8	11

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37	The effect of acceleration signal processing for head impact numeric simulations. Sports Engineering, 2017, 20, 111-119.	0.5	24
38	Pediatric concussion: biomechanical differences between outcomes of transient and persistent (> 4) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	18
39	Peak linear and rotational acceleration magnitude and duration effects on maximum principal strain in the corpus callosum for sport impacts. Journal of Biomechanics, 2017, 61, 183-192.	0.9	37
40	The development of a threshold curve for the understanding of concussion in sport. Trauma, 2017, 19, 196-206.	0.2	40
41	Protective Capacity of Ice Hockey Helmets against Different Impact Events. Annals of Biomedical Engineering, 2016, 44, 3693-3704.	1.3	36
42	The Ability of American Football Helmets to Manage Linear Acceleration With Repeated High-Energy Impacts. Journal of Athletic Training, 2016, 51, 258-263.	0.9	13
43	Evaluation of the protective capacity of baseball helmets for concussive impacts. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 366-375.	0.9	10
44	Traumatic Brain Injuries. Neurosurgery, 2015, 76, 81-91.	0.6	53
45	Determination of high-risk impact sites on a Hybrid III headform by finite element analysis. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2015, 229, 17-27.	0.4	2
46	Rotational Acceleration, Brain Tissue Strain, and the Relationship to Concussion. Journal of Biomechanical Engineering, 2015, 137, .	0.6	71
47	The dynamic response characteristics of traumatic brain injury. Accident Analysis and Prevention, 2015, 79, 33-40.	3.0	11
48	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. Journal of Neurosurgery, 2015, 123, 415-422.	0.9	46
49	Characterization of persistent concussive syndrome using injury reconstruction and finite element modelling. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 325-335.	1.5	54
50	The influence of dynamic response and brain deformation metrics on the occurrence of subdural hematoma in different regions of the brain. Journal of Neurosurgery, 2014, 120, 453-461.	0.9	29
51	A centric/non-centric impact protocol and finite element model methodology for the evaluation of American football helmets to evaluate risk of concussion. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1785-1800.	0.9	33
52	Current and Future Concepts in Helmet and Sports Injury Prevention. Neurosurgery, 2014, 75, S136-S148.	0.6	61
53	Differences in region-specific brain tissue stress and strain due to impact velocity for simulated American football impacts. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2014, 228, 276-286.	0.4	8
54	The influence of acceleration loading curve characteristics on traumatic brain injury. Journal of Biomechanics, 2014, 47, 1074-1081.	0.9	23

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55	Comparison of MADYMO and physical models for brain injury reconstruction. International Journal of Crashworthiness, 2014, 19, 301-310.	1.1	9
56	An examination of American football helmets using brain deformation metrics associated with concussion. Materials & Design, 2013, 45, 653-662.	5.1	47
57	Examination of the relationship between peak linear and angular accelerations to brain deformation metrics in hockey helmet impacts. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 511-519.	0.9	56
58	A Multiscale Computational Approach to Estimating Axonal Damage under Inertial Loading of the Head. Journal of Neurotrauma, 2013, 30, 102-118.	1.7	107
59	Dynamic impact response characteristics of a helmeted Hybrid III headform using a centric and non-centric impact protocol. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 220-225.	0.4	8
60	The application of brain tissue deformation values in assessing the safety performance of ice hockey helmets. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 226-236.	0.4	5
61	Mechanisms of brain impact injuries and their prediction: A review. Trauma, 2012, 14, 327-349.	0.2	50
62	Performance analysis of winter activity protection headgear for young children. Journal of Neurosurgery: Pediatrics, 2012, 9, 133-138.	0.8	14
63	Analysis of loading curve characteristics on the production of brain deformation metrics. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 200-207.	0.4	8
64	Analysis of the influence of independent variables used for reconstruction of a traumatic brain injury incident. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2012, 226, 290-298.	0.4	9
65	Finite element analysis of the effect of loading curve shape on brain injury predictors. Journal of Biomechanics, 2012, 45, 679-683.	0.9	66
66	Estimating the influence of neckform compliance on brain tissue strain during a Helmeted impact. Stapp Car Crash Journal, 2010, 54, 37-48.	1.1	7
67	Comparison of dynamic response and maximum principal strain of diagnosed concussion in professional menâ€™s rugby league. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 0, , 175433712110165.	0.4	1
68	Head Injuries, Measurement Criteria and Helmet Design. , 0, , .		1