Andrew Post

List of Publications by Year
in descending order

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68	1,245	361413 20	414414 32
papers	citations	h-index	g-index

68	68	68	657
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Multiscale Computational Approach to Estimating Axonal Damage under Inertial Loading of the Head. Journal of Neurotrauma, 2013, 30, 102-118.	3.4	107
2	Rotational Acceleration, Brain Tissue Strain, and the Relationship to Concussion. Journal of Biomechanical Engineering, 2015, 137, .	1.3	71
3	Finite element analysis of the effect of loading curve shape on brain injury predictors. Journal of Biomechanics, 2012, 45, 679-683.	2.1	66
4	Current and Future Concepts in Helmet and Sports Injury Prevention. Neurosurgery, 2014, 75, S136-S148.	1.1	61
5	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.	1.6	56
6	Characterization of persistent concussive syndrome using injury reconstruction and finite element modelling. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 325-335.	3.1	54
7	Traumatic Brain Injuries. Neurosurgery, 2015, 76, 81-91.	1.1	53
8	Mechanisms of brain impact injuries and their prediction: A review. Trauma, 2012, 14, 327-349.	0.5	50
9	An examination of American football helmets using brain deformation metrics associated with concussion. Materials & Design, 2013, 45, 653-662.	5.1	47
10	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.	1.6	46
11	The development of a threshold curve for the understanding of concussion in sport. Trauma, 2017, 19, 196-206.	0.5	40
12	Analysis of speed accuracy using video analysis software. Sports Engineering, 2018, 21, 235-241.	1.1	39
13	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.	2.1	37
14	Comparative analysis of Hybrid III neckform and an unbiased neckform. Sports Engineering, 2018, 21, 479-485.	1.1	37
15	Protective Capacity of Ice Hockey Helmets against Different Impact Events. Annals of Biomedical Engineering, 2016, 44, 3693-3704.	2.5	36
16	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.	1.6	33
17	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.	1.6	29
18	The biomechanics of concussion for ice hockey head impact events. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 631-643.	1.6	29

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19	The effect of acceleration signal processing for head impact numeric simulations. Sports Engineering, 2017, 20, 111-119.	1.1	24
20	The influence of acceleration loading curve characteristics on traumatic brain injury. Journal of Biomechanics, 2014, 47, 1074-1081.	2.1	23
21	Proposed injury thresholds for concussion in equestrian sports. Journal of Science and Medicine in Sport, 2020, 23, 222-236.	1.3	23
22	Pediatric concussion: biomechanical differences between outcomes of transient and persistent (> 4) Tj ETQq0 0 0 rgBT /Overlock 10	1.3	18
23	Performance analysis of winter activity protection headgear for young children. Journal of Neurosurgery: Pediatrics, 2012, 9, 133-138.	1.3	14
24	Comparison of Ice Hockey Goaltender Helmets for Concussion Type Impacts. Annals of Biomedical Engineering, 2018, 46, 986-1000.	2.5	14
25	The Ability of American Football Helmets to Manage Linear Acceleration With Repeated High-Energy Impacts. Journal of Athletic Training, 2016, 51, 258-263.	1.8	13
26	The dynamic response characteristics of traumatic brain injury. Accident Analysis and Prevention, 2015, 79, 33-40.	5.7	11
27	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.	1.3	11
28	Evaluation of the protective capacity of baseball helmets for concussive impacts. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 366-375.	1.6	10
29	Brain tissue analysis of impacts to American football helmets. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 264-277.	1.6	10
30	Distribution of Brain Strain in the Cerebrum for Laboratory Impacts to Ice Hockey Goaltender Masks. Journal of Biomechanical Engineering, 2018, 140, .	1.3	10
31	Development of a test method for adult ice hockey helmet evaluation. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 690-702.	1.6	10
32	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.	0.7	9
33	Comparison of MADYMO and physical models for brain injury reconstruction. International Journal of Crashworthiness, 2014, 19, 301-310.	1.9	9
34	A comparison of frequency and magnitude of head impacts between Pee Wee And Bantam youth ice hockey. Sports Biomechanics, 2020, , 1-24.	1.6	9
35	A preliminary examination of the relationship between biomechanical measures and structural changes in the brain. Trauma, 2021, 23, 24-32.	0.5	9
36	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.	1.6	9

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37	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.	0.7	8
38	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.	0.7	8
39	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.	0.7	8
40	Intracranial Displacement Measurements Within Targeted Anatomical Regions of a Postmortem Human Surrogate Brain Subjected to Impact. Annals of Biomedical Engineering, 2021, 49, 2836-2851.	2.5	7
41	Could a Compliant Foam Anvil Characterize the Biofidelic Impact Response of Equestrian Helmets?. Journal of Biomechanical Engineering, 2020, 142, .	1.3	7
42	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
43	Falls resulting in mild traumatic brain injury and focal traumatic brain injury: a biomechanical analysis. International Journal of Crashworthiness, 2018, 23, 278-289.	1.9	6
44	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.	0.7	6
45	Exposure to brain trauma in six age divisions of minor ice hockey. Journal of Biomechanics, 2021, 116, 110203.	2.1	6
46	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.	0.7	5
47	Protective capacity of ice hockey helmets at different levels of striking compliance. Sports Engineering, 2020, 23, 1.	1.1	5
48	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.	0.7	4
49	The influence of impact surface on head kinematics and brain tissue response during impacts with equestrian helmets. Sports Biomechanics, 2019, 20, 1-14.	1.6	4
50	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.	1.6	4
51	Comparing two proposed protocols to test the oblique response of cycling helmets to fall impacts. International Journal of Crashworthiness, 2020, 25, 648-663.	1.9	4
52	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.	0.6	4
53	Brain trauma characteristics for lightweight and heavyweight fighters in professional mixed martial arts. Sports Biomechanics, 2021, , 1-23.	1.6	4
54	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.	0.7	3

#	Article	IF	Citations
55	A biomechanical analysis of traumatic brain injury for slips and falls from height. Trauma, 2019, 21, 27-34.	0.5	3
56	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.	0.7	3
57	Biomechanical Comparison of Real World Concussive Impacts in Children, Adolescents, and Adults. Journal of Biomechanical Engineering, 2020, 142, .	1.3	3
58	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.	0.7	2
59	Investigation of an Ice Hockey Helmet Test Protocol Representing Three Concussion Event Types. Journal of Testing and Evaluation, 2022, 50, 465-478.	0.7	2
60	Brain tissue strain and balance impairments in children following a concussion: An exploratory study. Journal of Concussion, 2019, 3, 205970021988923.	0.6	1
61	A preliminary analysis of biomechanics and saccadic responses for concussion. Trauma, 2020, 22, 182-192.	0.5	1
62	A parametric analysis of factors that determine head injury outcomes following equestrian fall accidents. International Journal of Crashworthiness, 2021, 26, 295-308.	1.9	1
63	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.	0.7	1
64	Head Injuries, Measurement Criteria and Helmet Design. , 0, , .		1
65	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.	0.7	0
66	Comparison of head impact frequency and magnitude in youth tackle football and ice hockey. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-16.	1.6	0
67	Comparison of Head Impact Frequency and Magnitude for Midget and Junior Ice Hockey Players to Inform Safety and Policy. , 2020, , 21-44.		0
68	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.	1.6	0