

# CITATION REPORT

List of articles citing

**Rotational head kinematics in football impacts: an injury risk function for concussion**

**DOI: 10.1007/s10439-011-0392-4**

**Annals of Biomedical Engineering, 2012, 40, 1-13.**

**Source:** <https://exaly.com/paper-pdf/54731792/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
318	Impact performance of ice hockey helmets: head acceleration versus focal force dispersion. <b>2012</b> , 226, 185-192		5
317	Association between biomechanical parameters and concussion in helmeted collisions in American football: a review of the literature. <b>2012</b> , 33, E10: 1-6		20
316	Current world literature. <b>2012</b> , 24, 770-9		
315	Spectrum of acute clinical characteristics of diagnosed concussions in college athletes wearing instrumented helmets: clinical article. <b>2012</b> , 117, 1092-9		101
314	Helmets. <b>2012</b> , 117, 187; author reply 187-9		2
313	An overview of the basic science of concussion and subconcussion: where we are and where we are going. <b>2012</b> , 33, E5: 1-9		88
312	Motor vehicle crash-related subdural hematoma from real-world head impact data. <b>2012</b> , 29, 2774-81		17
311	Modeling brain injury response for rotational velocities of varying directions and magnitudes. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 2005-18	4.7	48
310	The Virginia Tech Response. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 2512-2518	4.7	13
309	An investigation of cranial motion through a review of biomechanically based skull deformation literature. <b>2012</b> , 15, 152-165		12
308	The influence of helmet size and shape on peak linear decelerations when impacting crash pads. <b>2012</b> , 34, 819-824		3
307	Dynamic material properties of the pregnant human uterus. <b>2012</b> , 45, 1724-7		21
306	Head impact exposure in youth football. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 976-81	4.7	147
305	Measuring head kinematics in football: correlation between the head impact telemetry system and Hybrid III headform. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 237-48	4.7	146
304	Head impact exposure in youth football: high school ages 14 to 18 years and cumulative impact analysis. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 2474-87	4.7	112
303	Angular Impact Mitigation system for bicycle helmets to reduce head acceleration and risk of traumatic brain injury. <b>2013</b> , 59, 109-17		44
302	Head impact exposure in youth football: elementary school ages 9-12 years and the effect of practice structure. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 2463-73	4.7	149

301	Role of subconcussion in repetitive mild traumatic brain injury. <b>2013</b> , 119, 1235-45		326
300	On the accuracy of the Head Impact Telemetry (HIT) System used in football helmets. <b>2013</b> , 46, 2310-5		122
299	Bicycle helmets: head impact dynamics in helmeted and unhelmeted oblique impact tests. <b>2013</b> , 14, 501-8		51
298	Potential of in vivo MRI-based nonlinear finite-element analysis for the assessment of trabecular bone post-yield properties. <b>2013</b> , 40, 052303		15
297	Brain injury prediction: assessing the combined probability of concussion using linear and rotational head acceleration. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 873-82	4-7	221
296	An instrumented mouthguard for measuring linear and angular head impact kinematics in American football. <i>Annals of Biomedical Engineering</i> , <b>2013</b> , 41, 1939-49	4-7	131
295	Towards clinical management of traumatic brain injury: a review of models and mechanisms from a biomechanical perspective. <b>2013</b> , 6, 1325-38		70
294	Biomechanical performance of leather and modern football helmets. <b>2013</b> , 119, 805-9		14
293	Leather football helmets. <b>2013</b> , 119, 803-4		1
292	Effect of strain rate on the material properties of human liver parenchyma in unconfined compression. <b>2013</b> , 135, 104503-8		17
291	The temperature inside football helmets during head impact: a five-year study of collegiate football games. <b>2013</b> , 227, 12-19		
290	A method of evaluating helmet rotational acceleration protection using the Kingston Impact Simulator (KIS Unit). <b>2013</b> , 23, 470-7		5
289	Mathematical Models of Blast-Induced TBI: Current Status, Challenges, and Prospects. <b>2013</b> , 4, 59		65
288	The biomechanical determinants of concussion: finite element simulations to investigate brain tissue deformations during sporting impacts to the unprotected head. <b>2013</b> , 29, 721-30		58
287	Head impact exposure sustained by football players on days of diagnosed concussion. <b>2013</b> , 45, 737-46		114
286	Timing of concussion diagnosis is related to head impact exposure prior to injury. <b>2013</b> , 45, 747-54		72
285	Traumatic brain injury, neuroimaging, and neurodegeneration. <b>2013</b> , 7, 395		128
284	Why Most Traumatic Brain Injuries are Not Caused by Linear Acceleration but Skull Fractures are. <b>2013</b> , 1, 15		67

283	Neck Flexion Induces Larger Deformation of the Brain Than Extension at a Rotational Acceleration, Closed Head Trauma. <b>2014</b> , 2014, 1-13			1
282	Abnormal white matter integrity related to head impact exposure in a season of high school varsity football. <b>2014</b> , 31, 1617-24			168
281	Head impact exposure in youth football: middle school ages 12-14 years. <b>2014</b> , 136, 094501			51
280	The biomechanics of concussion in unhelmeted football players in Australia: a case-control study. <b>2014</b> , 4, e005078			71
279	Letters to the editor: football helmet design and concussion. <b>2014</b> , 121, 491-4			2
278	Effect of head impacts on diffusivity measures in a cohort of collegiate contact sport athletes. <b>2014</b> , 82, 63-9			174
277	Head impact exposure in youth football: elementary school ages 7-8 years and the effect of returning players. <b>2014</b> , 24, 416-21			59
276	Head impact accelerations for brain strain-related responses in contact sports: a model-based investigation. <b>2014</b> , 13, 1121-36			59
275	Parametric comparisons of intracranial mechanical responses from three validated finite element models of the human head. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 11-24	4-7		64
274	A headform for testing helmet and mouthguard sensors that measure head impact severity in football players. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 1834-45	4-7		22
273	A head impact detection system using SVM classification and proximity sensing in an instrumented mouthguard. <b>2014</b> , 61, 2659-68			40
272	Re: On the accuracy of the Head Impact Telemetry (HIT) system used in football helmets. <b>2014</b> , 47, 1557-8			5
271	Rotational acceleration during head impact resulting from different judo throwing techniques. <b>2014</b> , 54, 374-8			20
270	Biomechanical analysis of acute subdural hematoma resulting from judo. <b>2014</b> , 35, 339-44			15
269	Surrogate headform accelerations associated with stick checks in girls' lacrosse. <b>2015</b> , 31, 122-7			9
268	Laboratory Evaluation of Wireless Head Impact Sensor. <b>2015</b> , 112, 175-179			28
267	American Football Helmet for Preventing Concussion, a Literature Review. <b>2015</b> , 3, 3796-3803			8
266	Six Degree-of-Freedom Measurements of Human Mild Traumatic Brain Injury. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1918-34	4-7		121

265	Accounting for sampling variability, injury under-reporting, and sensor error in concussion injury risk curves. <b>2015</b> , 48, 3059-65		15
264	A Pre-computed Brain Response Atlas for Instantaneous Strain Estimation in Contact Sports. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1877-95	4-7	34
263	Simulation, fabrication and impact testing of a novel football helmet padding system that decreases rotational acceleration. <b>2015</b> , 18, 11-20		14
262	Measurement of Head Impact Due to Standing Fall in Adults Using Anthropomorphic Test Dummies. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 2143-52	4-7	18
261	Instrumented mouthguard acceleration analyses for head impacts in amateur rugby union players over a season of matches. <b>2015</b> , 43, 614-24		87
260	Recent developments in clinical trials for the treatment of traumatic brain injury. <b>2015</b> , 127, 433-51		28
259	Head rotational acceleration characteristics influence behavioral and diffusion tensor imaging outcomes following concussion. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1071-88	4-7	43
258	Biofidelic neck influences head kinematics of parietal and occipital impacts following short falls in infants. <b>2015</b> , 82, 143-53		10
257	Boxing headguard performance in punch machine tests. <b>2015</b> , 49, 1108-12		25
256	Rotational acceleration, brain tissue strain, and the relationship to concussion. <b>2015</b> , 137,		56
255	Evaluation of a laboratory model of human head impact biomechanics. <b>2015</b> , 48, 3469-77		25
254	Biomechanics of head impacts associated with diagnosed concussion in female collegiate ice hockey players. <b>2015</b> , 48, 2201-4		38
253	Hockey STAR: A Methodology for Assessing the Biomechanical Performance of Hockey Helmets. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 2429-43	4-7	52
252	Self-powered monitoring of repeated head impacts using time-dilation energy measurement circuit. <b>2015</b> , 9, 217-26		12
251	Head injury predictors in sports trauma--a state-of-the-art review. <b>2015</b> , 229, 592-608		27
250	Functional tolerance to mechanical deformation developed from organotypic hippocampal slice cultures. <b>2015</b> , 14, 561-75		16
249	A Review of Instrumented Equipment to Investigate Head Impacts in Sport. <b>2016</b> , 2016, 7049743		36
248	Synaptic Mechanisms of Blast-Induced Brain Injury. <b>2016</b> , 7, 2		38

247	Behavioral Outcomes Differ between Rotational Acceleration and Blast Mechanisms of Mild Traumatic Brain Injury. <b>2016</b> , 7, 31	23
246	The Effects of External Jugular Compression Applied during Head Impact Exposure on Longitudinal Changes in Brain Neuroanatomical and Neurophysiological Biomarkers: A Preliminary Investigation. <b>2016</b> , 7, 74	44
245	Crew safety evaluation and injury mechanism at Launch Abort System based on multibody simulation. <b>2016</b> , 82, 16-00085-16-00085	1
244	2D and 3D Mechanobiology in Human and Nonhuman Systems. <b>2016</b> , 8, 21869-82	8
243	Serum Neurofilament Light in American Football Athletes over the Course of a Season. <b>2016</b> , 33, 1784-1789	78
242	Head Impact Measurement Devices. <b>2016</b> , 8, 270-273	6
241	Considerations for the performance requirements and technical specifications of soft-shell padded headgear. <b>2016</b> , 230, 29-42	1
240	Minimizing Head Acceleration in Soccer: A Review of the Literature. <b>2016</b> , 46, 1591-1604	39
239	Abnormalities in Diffusional Kurtosis Metrics Related to Head Impact Exposure in a Season of High School Varsity Football. <b>2016</b> , 33, 2133-2146	56
238	Performance of Children and Adult Alpine Helmets under Characteristic Falling Conditions. <b>2016</b> , 147, 578-583	3
237	Whiplash Injury or Concussion? A Possible Biomechanical Explanation for Concussion Symptoms in Some Individuals Following a Rear-End Collision. <b>2016</b> , 46, 874-885	24
236	Traumatic brain injury in pedestrian-vehicle collisions: Convexity and suitability of some functionals used as injury metrics. <b>2016</b> , 136, 55-64	1
235	Field Evaluation of a Small Form-factor Head Impact Sensor for use in Soccer. <b>2016</b> , 147, 186-190	10
234	Drill-specific head impact exposure in youth football practice. <b>2016</b> , 18, 536-541	26
233	Subconcussive impacts and imaging findings over a season of contact sports. <b>2016</b> , 1, CNC19	14
232	Assessment of Kinematic Brain Injury Metrics for Predicting Strain Responses in Diverse Automotive Impact Conditions. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 3705-3718	4-7 60
231	Prediction of Post-Concussive Behavioral Changes in a Rodent Model Based on Head Rotational Acceleration Characteristics. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 3252-3265	4-7 7
230	Safety performance testing of climbing helmet-mounted cameras. <b>2016</b> , 22, 261-7	0

229	Biomechanical Perspectives on Concussion in Sport. <b>2016</b> , 24, 100-7		33
228	Concussion management in the ED: Beyond GCS. <b>2016</b> , 26, 47-51		5
227	Comparative analysis of helmeted impact response of Hybrid III and National Operating Committee on Standards for Athletic Equipment headforms. <b>2016</b> , 230, 50-60		13
226	Ice hockey shoulder pad design and the effect on head response during shoulder-to-head impacts. <b>2016</b> , 15, 385-96		2
225	White Matter Injury Susceptibility via Fiber Strain Evaluation Using Whole-Brain Tractography. <b>2016</b> , 33, 1834-1847		45
224	Laboratory Validation of Two Wearable Sensor Systems for Measuring Head Impact Severity in Football Players. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 1257-74	4-7	96
223	Brain injury in sports. <b>2016</b> , 124, 667-74		5
222	Similar head impact acceleration measured using instrumented ear patches in a junior rugby union team during matches in comparison with other sports. <b>2016</b> , 18, 65-72		25
221	The Influence of Head Impact Threshold for Reporting Data in Contact and Collision Sports: Systematic Review and Original Data Analysis. <b>2016</b> , 46, 151-69		49
220	Chronic traumatic encephalopathy: The unknown disease. <b>2017</b> , 32, 185-191		2
219	Head impact in a snowboarding accident. <b>2017</b> , 27, 964-974		19
218	Quantifying Head Impact Exposure in Collegiate Women's Soccer. <b>2017</b> , 27, 104-110		94
217	A Three-Dimensional Computational Human Head Model That Captures Live Human Brain Dynamics. <b>2017</b> , 34, 2154-2166		68
216	Defining the biomechanical and biological threshold of murine mild traumatic brain injury using CHIMERA (Closed Head Impact Model of Engineered Rotational Acceleration). <b>2017</b> , 292, 80-91		45
215	Full-face motorcycle helmet protection from facial impacts: an investigation using THOR dummy impacts and SIMon finite element head model. <b>2017</b> , 23, 205-210		5
214	Head-Impact-Measurement Devices: A Systematic Review. <b>2017</b> , 52, 206-227		99
213	Individual Impact Magnitude vs. Cumulative Magnitude for Estimating Concussion Odds. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1985-1992	4-7	6
212	Chronic traumatic encephalopathy: The unknown disease. <b>2017</b> , 32, 185-191		0

211	Evaluation of Head and Brain Injury Risk Functions Using Sub-Injurious Human Volunteer Data. <b>2017</b> , 34, 2410-2424	23
210	Head Impact Exposure in Youth Football: Comparing Age- and Weight-Based Levels of Play. <b>2017</b> , 34, 1939-1947	38
209	Head Impact Density: A Model To Explain the Elusive Concussion Threshold. <b>2017</b> , 34, 2675-2683	39
208	Effect of cerebrospinal fluid modeling on spherically convergent shear waves during blunt head trauma. <b>2017</b> , 33, e2881	10
207	Head impacts in a junior rugby league team measured with a wireless head impact sensor: an exploratory analysis. <b>2017</b> , 19, 13-23	23
206	High-magnitude head impact exposure in youth football. <b>2017</b> , 20, 604-612	28
205	Head and neck size and neck strength predict linear and rotational acceleration during purposeful soccer heading. <b>2018</b> , 17, 462-476	39
204	Big Data in traumatic brain injury; promise and challenges. <b>2017</b> , 2, CNC45	16
203	Comparison of Impact Performance between Youth and Varsity Football Helmets. <b>2017</b> , 231, 374-380	
202	Developing new brain injury criteria for predicting the intracranial response by calculating von Mises stress, coup pressure and contrecoup pressure. <b>2017</b> , 39, 3729-3741	1
201	Protective capacity of an ice hockey goaltender helmet for three events associated with concussion. <b>2017</b> , 20, 1299-1311	15
200	Animal models of chronic traumatic encephalopathy. <b>2017</b> , 2, CNC32	12
199	Bulging brains. <b>2017</b> , 129, 197-212	20
198	Accelerometers for the Assessment of Concussion in Male Athletes: A Systematic Review and Meta-Analysis. <b>2017</b> , 47, 469-478	44
197	A Mechanistic End-to-End Concussion Model That Translates Head Kinematics to Neurologic Injury. <b>2017</b> , 8, 269	9
196	Estimated Brain Tissue Response Following Impacts Associated With and Without Diagnosed Concussion. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 819-830	4-7 27
195	Differences in the protective capabilities of bicycle helmets in real-world and standard-specified impact scenarios. <b>2018</b> , 19, S158-S163	15
194	Characterization of cervical neuromuscular response to head-neck perturbation in active young adults. <b>2018</b> , 39, 70-76	9



193	Material properties of the brain in injury-relevant conditions - Experiments and computational modeling. <b>2018</b> , 80, 222-234	41
192	Effect of Helmet Use on Traumatic Brain Injuries and Other Head Injuries in Alpine Sport. <b>2018</b> , 29, 151-158	16
191	Effect of bulk modulus on deformation of the brain under rotational accelerations. <b>2018</b> , 28, 127-139	15
190	Laboratory and field evaluation of a small form factor head impact sensor in un-helmeted play. <b>2018</b> , 232, 242-254	5
189	Head acceleration measurement techniques: Reliability of angular rate sensor data in helmeted impact testing. <b>2018</b> , 232, 176-181	6
188	Propagation of errors from skull kinematic measurements to finite element tissue responses. <b>2018</b> , 17, 235-247	16
187	Analysis of head impacts during sub-elite hurling practice sessions. <b>2018</b> , 36, 1256-1261	2
186	Investigating the effects of subconcussion on functional connectivity using mass-univariate and multivariate approaches. <b>2018</b> , 12, 1332-1345	21
185	Correlation of Concussion Symptom Profile with Head Impact Biomechanics: A Case for Individual-Specific Injury Tolerance. <b>2018</b> , 35, 681-690	46
184	Development of a Single-Degree-of-Freedom Mechanical Model for Predicting Strain-Based Brain Injury Responses. <b>2018</b> , 140,	25
183	Biomechanics of Head Trauma. <b>2018</b> , 51-62	
182	Risk of concussion due to head acceleration in rear impact sled tests of passenger automobile seats. <b>2018</b> , 19, S133-S135	2
181	Assessing Head/Neck Dynamic Response to Head Perturbation: A Systematic Review. <b>2018</b> , 48, 2641-2658	12
180	Differences in Impact Performance of Bicycle Helmets During Oblique Impacts. <b>2018</b> , 140,	21
179	modCHIMERA: a novel murine closed-head model of moderate traumatic brain injury. <b>2018</b> , 8, 7677	21
178	Head Impact Exposure in Practices Correlates With Exposure in Games for Youth Football Players. <b>2018</b> , 34, 354-360	7
177	Adaptive head impact protection via a rate-activated helmet suspension. <b>2018</b> , 154, 153-169	6
176	Laboratory Evaluation of Low-Cost Wearable Sensors for Measuring Head Impacts in Sports. <b>2018</b> , 34, 320-326	34

175	Head Impact Exposure in Junior and Adult Australian Football Players. <b>2018</b> , 2018, 8376030	6
174	Distribution of Brain Strain in the Cerebrum for Ice Hockey Goaltender Impacts. <b>2018</b> ,	5
173	Cross-sectional evaluation of visuomotor tracking performance following subconcussive head impacts. <b>2018</b> , 26, 109-118	4
172	Evaluation of Environmental Sensors During Laboratory Direct and Indirect Head Exposures. <b>2018</b> , 183, 294-302	3
171	Voluntary Head Rotational Velocity and Implications for Brain Injury Risk Metrics. <b>2019</b> , 36, 1125-1135	9
170	Elevated markers of brain injury as a result of clinically asymptomatic high-acceleration head impacts in high-school football athletes. <b>2018</b> , 1-7	23
169	A football helmet prototype that reduces linear and rotational acceleration with the addition of an outer shell. <b>2018</b> , 1-8	6
168	Nonlinear Dynamical Behavior of the Deep White Matter during Head Impact. <b>2019</b> , 12,	16
167	Accounting for Variance in Concussion Tolerance Between Individuals: Comparing Head Accelerations Between Concussed and Physically Matched Control Subjects. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 2048-2056	4-7 13
166	Evaluation of skin-mounted sensor for head impact measurement. <b>2019</b> , 233, 735-744	12
165	Do American Youth Football Players Intentionally Use Their Heads for High-Magnitude Impacts?. <b>2019</b> , 47, 3498-3504	8
164	Comparison of surrogate 50th percentile human headforms to an adult male sample using three-dimensional modeling and principal component analysis. <b>2019</b> , 233, 432-442	1
163	The effect of a novel impact management strategy on maximum principal strain for reconstructions of American football concussive events. <b>2019</b> , 233, 503-513	0
162	Head impact magnitudes that occur from purposeful soccer heading depend on the game scenario and head impact location. <b>2019</b> , 40, 53-57	19
161	Protective Helmets in Sports. <b>2019</b> , 71-121	1
160	Proposing a Radial Basis Function and CSDM Indices to Predict the Traumatic Brain Injury Risk. <b>2019</b> , 40, 244-252	2
159	Frequency and Magnitude of Game-Related Head Impacts in Male Contact Sports Athletes: A Systematic Review and Meta-Analysis. <b>2019</b> , 49, 1575-1583	8
158	Pathophysiology of Concussion. <b>2019</b> , 30, 14-25	8

157	Women and Men Use Different Strategies to Stabilize the Head in Response to Impulsive Loads: Implications for Concussion Injury Risk. <b>2019</b> , 49, 779-786	14
156	Sport-Related Concussion: Evaluation, Treatment, and Future Directions. <b>2019</b> , 7,	4
155	Component-Level Finite Element Model and Validation for a Modern American Football Helmet. <b>2019</b> , 5, 117-131	11
154	Predictive Power of Head Impact Intensity Measures for Recognition Memory Performance. <b>2019</b> , 184, 206-217	5
153	A review of impact testing methods for headgear in sports: Considerations for improved prevention of head injury through research and standards. <b>2019</b> ,	13
152	Relative Motion between the Helmet and Head in Football Impact Test. <b>2019</b> ,	13
151	Head Injuries. <b>2019</b> , 87-115	
150	Frequency-Dependent Changes in Resting State Electroencephalogram Functional Networks after Traumatic Brain Injury in Piglets. <b>2019</b> , 36, 2558-2578	7
149	Lateral impacts correlate with falx cerebri displacement and corpus callosum trauma in sports-related concussions. <b>2019</b> , 18, 631-649	40
148	Experimental Evaluation of Softball Protective Headgear for Defensive Play. <b>2019</b> , 35, 202-208	2
147	What Happens to Concussed Animals?. <b>2019</b> , 153-204	
146	Concussion Pathophysiology and Injury Biomechanics. <b>2019</b> , 12, 105-116	25
145	Construction of a risk model through the fusion of experimental data and finite element modeling: Application to car crash-induced TBI. <b>2019</b> , 22, 605-619	2
144	Convolutional neural network for efficient estimation of regional brain strains. <b>2019</b> , 9, 17326	18
143	Magnitude and frequency of head impact among university American football players. <b>2019</b> , 8, 1-13	2
142	Comparison of Head Impact Exposure Between Concussed Football Athletes and Matched Controls: Evidence for a Possible Second Mechanism of Sport-Related Concussion. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 2057-2072	4-7 42
141	Interaction of impact parameters for simulated falls in sport using three different sized Hybrid III headforms. <b>2019</b> , 24, 326-335	10
140	White Matter Anisotropy for Impact Simulation and Response Sampling in Traumatic Brain Injury. <b>2019</b> , 36, 250-263	40

139	Brain tissue strains vary with head impact location: A possible explanation for increased concussion risk in struck versus striking football players. <b>2019</b> , 64, 49-57		32
138	Physiological arousal in athletes following repeated subconcussive impact exposure. <b>2020</b> , 39, 640-647		2
137	Event-specific impact test protocol for ice hockey goaltender masks. <b>2020</b> , 19, 510-531		3
136	Helmet protective performance via reconstruction of electric two-wheeler rider's head-to-ground impact accidents. <b>2020</b> , 25, 493-504		10
135	Proposed injury thresholds for concussion in equestrian sports. <b>2020</b> , 23, 222-236		11
134	Development of the STAR Evaluation System for Assessing Bicycle Helmet Protective Performance. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 47-57	4-7	22
133	Development of a Concussion Risk Function for a Youth Population Using Head Linear and Rotational Acceleration. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 92-103	4-7	22
132	Validation of a Football Helmet Finite Element Model and Quantification of Impact Energy Distribution. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 121-132	4-7	13
131	Dynamics of spinal cord compression with different patterns of thoracolumbar burst fractures: Numerical simulations using finite element modelling. <b>2020</b> , 72, 186-194		12
130	Are headforms a poor surrogate for helmet fit?. <b>2020</b> , 234, 109-124		1
129	The biomechanics of concussive helmet-to-ground impacts in the National Football league. <b>2020</b> , 99, 109551		10
128	Physical Performance Measures Correlate with Head Impact Exposure in Youth Football. <b>2020</b> , 52, 449-456		1
127	A modular impact diverting mechanism for football helmets. <b>2020</b> , 99, 109502		2
126	An envelope of linear and rotational head motion during everyday activities. <b>2020</b> , 19, 1003-1014		7
125	A network-based response feature matrix as a brain injury metric. <b>2020</b> , 19, 927-942		20
124	Development and Evaluation of a Test Method for Assessing the Performance of American Football Helmets. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2566-2579	4-7	17
123	The closed-head impact model of engineered rotational acceleration (CHIMERA) as an application for traumatic brain injury pre-clinical research: A status report. <b>2020</b> , 333, 113409		12
122	Do Head Injury Biomechanics Predict Concussion Clinical Recovery in College American Football Players?. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2555-2565	4-7	7

121	Analysis of head acceleration events in collegiate-level American football: A combination of qualitative video analysis and in-vivo head kinematic measurement. <b>2020</b> , 110, 109969		10
120	Concussion Risk Between Individual Football Players: Survival Analysis of Recurrent Events and Non-events. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2626-2638	4-7	0
119	The Effect of Muscle Activation on Head Kinematics During Non-injurious Head Impacts in Human Subjects. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2751-2762	4-7	12
118	Concussion and the severity of head impacts in mixed martial arts. <b>2020</b> , 234, 1472-1483		8
117	A Review of On-Field Investigations into the Biomechanics of Concussion in Football and Translation to Head Injury Mitigation Strategies. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2734-2750	4-7	6
116	Laboratory Reconstructions of Bicycle Helmet Damage: Investigation of Cyclist Head Impacts Using Oblique Impacts and Computed Tomography. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2783-2795	4-7	7
115	Characteristics of potential concussive events in three elite football tournaments. <b>2020</b> , 26, 334-338		9
114	A Proposed Algorithm to Assess Concussion Potential in Rear-End Motor Vehicle Collisions: A Meta-Analysis. <b>2020</b> , 2020, 9679372		0
113	Video analysis of head injury incidents in equestrian sports. <b>2020</b> , 23, 1		1
112	Evaluation of injury thresholds for predicting severe head injuries in vulnerable road users resulting from ground impact via detailed accident reconstructions. <b>2020</b> , 19, 1845-1863		10
111	Skiing and snowboarding head injury: A retrospective centre-based study and implications for helmet test standards. <b>2020</b> , 73, 122-129		2
110	A New Model of Repetitive Traumatic Brain Injury in Mice. <b>2019</b> , 13, 1417		9
109	A Novel Testing Device to Assess the Effect of Neck Strength on Risk of Concussion. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 2310-2322	4-7	3
108	Displacement- and Strain-Based Discrimination of Head Injury Models across a Wide Range of Blunt Conditions. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 1661-1677	4-7	24
107	Finite element simulation of head impacts in mixed martial arts. <b>2021</b> , 24, 278-288		2
106	Relating on-field youth football head impacts to pneumatic ram laboratory testing procedures. <b>2021</b> , 235, 62-69		
105	Brain Strain: Computational Model-Based Metrics for Head Impact Exposure and Injury Correlation. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 1083-1096	4-7	9
104	Applying a novel 3D hydrogel cell culture to investigate activation of microglia due to rotational kinematics associated with mild traumatic brain injury. <b>2021</b> , 114, 104176		3

103	Instantaneous Whole-Brain Strain Estimation in Dynamic Head Impact. <b>2021</b> , 38, 1023-1035	18
102	Relationships between biomechanical parameters, neurological recovery, and neuropathology following concussion in swine.	1
101	A Computational Study of Liquid Shock Absorption for Prevention of Traumatic Brain Injury. <b>2021</b> , 143,	5
100	Spatial calcium kinetics after a traumatic brain injury. <b>2021</b> , 20, 1413-1430	1
99	Characteristics of potential concussive events in elite male gaelic football players: A descriptive video-analysis. <b>2021</b> , 39, 1700-1708	0
98	Mapping default mode connectivity alterations following a single season of subconcussive impact exposure in youth football. <b>2021</b> , 42, 2529-2545	3
97	A new open-access platform for measuring and sharing mTBI data. <b>2021</b> , 11, 7501	6
96	Repetitive mild traumatic brain injury in mice triggers a slowly developing cascade of long-term and persistent behavioral deficits and pathological changes. <b>2021</b> , 9, 60	6
95	Work-related traumatic brain injury in the construction industry in Sweden and Germany. <b>2021</b> , 136, 105147	3
94	Incidence and Mechanisms of Head, Cervical Spine, Lumbar Spine, and Lower Extremity Injuries for Occupants in Low- to Moderate-Speed Rear-End Collisions.	0
93	Incidence and Mechanism of Head, Cervical Spine, Lumbar Spine, and Lower Extremity Injuries for Occupants in Low- to Moderate-Speed Frontal Collisions.	
92	The Influence of Hard Hat Design Features on Head Acceleration Attenuation. <b>2021</b> , 37, 80-86	1
91	Evaluation of the Effect of a Rear Operator Guard on the Overall Safety for Operators of Standup Lift Trucks. <b>2021</b> , 7,	
90	A price-performance analysis of the protective capabilities of wholesale bicycle helmets. <b>2021</b> , 22, 478-482	
89	Group characterization of impact-induced, human brain kinematics. <b>2021</b> , 18, 20210251	0
88	Repetitive head impacts in a collegiate football season: Exposure and effects. 174795412110272	
87	The Head AIS 4+ Injury Thresholds for the Elderly Vulnerable Road User Based on Detailed Accident Reconstructions. <b>2021</b> , 9, 682015	7
86	Selected issues in sport-related concussion (SRC mild traumatic brain injury) for the team physician: a consensus statement. <b>2021</b> , 55, 1251-1261	3

85	Design and Virtual Testing of American Football Helmets. A Review. 1	1
84	Evaluation of Tissue-Level Brain Injury Metrics Using Species-Specific Simulations. <b>2021</b> , 38, 1879-1888	17
83	Head Impact Exposure of a Youth Football Team over Eight Consecutive Seasons. <b>2021</b> , 54,	
82	Performance of a novel football helmet technology on head impact kinematics. <b>2021</b> , 24, 1	2
81	Selected Issues in Sport-Related Concussion (SRC   Mild Traumatic Brain Injury) for the Team Physician: A Consensus Statement. <b>2021</b> , 20, 420-431	0
80	Top-100 Most-Cited Sports-Related Concussion Articles Focus on Symptomatology, Epidemiology, and Demographics.. <b>2021</b> , 3, e1585-e1597	1
79	Measurement of brain simulant strains in head surrogate under impact loading. <b>2021</b> , 20, 2319-2334	2
78	Effective Head Impact Kinematics to Preserve Brain Strain. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 2777-2790	4-7 1
77	In silico investigation of biomechanical response of a human subjected to primary blast.	
76	An Overview of the Effectiveness of Bicycle Helmet Designs in Impact Testing. <b>2021</b> , 9, 718407	3
75	Head Impact Modeling to Support a Rotational Combat Helmet Drop Test. <b>2021</b> ,	0
74	Laboratory Reconstructions of Real-world Bicycle Helmet Impacts. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 2827-2835	4-7 2
73	An in-silico study of the effect of non-linear skin dynamics on skin-mounted accelerometer inference of skull motion. <b>2021</b> , 70, 102986	
72	Biomechanical Studies of Impact and Helmet Protection. <b>2021</b> , 81-93	
71	The Biomechanics of Concussion: 60 Years of Experimental Research. <b>2014</b> , 115-137	8
70	Biomechanical Studies of Impact and Helmet Protection. <b>2014</b> , 167-178	3
69	Modelling of the Brain for Injury Simulation and Prevention. <b>2019</b> , 97-133	4
68	Bulging Brains. <b>2018</b> , 197-212	2

67	Mechanisms and variances of rotation-induced brain injury: a parametric investigation between head kinematics and brain strain. <b>2020</b> , 19, 2323-2341	12
66	Vulnerable locations on the head to brain injury and implications for helmet design. <b>2019</b> ,	3
65	An Approach to Characterize the Impact Absorption Performance of Construction Helmets in Top Impact. <b>2021</b> , 49, 20180604	1
64	Head impact exposure comparison between male and female amateur rugby league participants measured with an instrumented patch. <b>2019</b> , 4, 024-037	3
63	Are specific players more likely to be involved in high-magnitude head impacts in youth football?. <b>2019</b> , 24, 47-53	5
62	Frequency and Location of Head Impacts in Division I Men's Lacrosse Players. <b>2016</b> , 8, 202-208	11
61	Head Impact Research Using Inertial Sensors in Sport: A Systematic Review of Methods, Demographics, and Factors Contributing to Exposure. <b>2021</b> , 1	1
60	Characterization of head impact exposure in boys' youth ice hockey. <b>2021</b> , 1-11	0
59	Brain injury severity due to direct head contact from near-side motor vehicle collisions. <b>2021</b> , 1-6	
58	Kopfverletzungen. <b>2014</b> , 61-89	
57	Head Injuries. <b>2014</b> , 55-80	
56	Helmet Shape and Size Considerations in Short Track Speed Skating Crash Pad Impacts. <b>2014</b> , 153-170	
55	Impact on the head during collisions between university American football players - focusing on the number of head impacts and linear head acceleration -. <b>2017</b> , 6, 241-249	3
54	Risk of Concussion in Low- to Moderate-Speed Frontal and Rear-End Motor Vehicle Collisions Evaluated Using Head Acceleration-Based Metrics.	4
53	Laboratory Performance Evaluation of Pristine and Used Headgear for Girls' Lacrosse. <b>2019</b> , 35, 297-302	4
52	An experimental investigation of impact of pendulum with the surrogate head. <b>2020</b> , 12, 94-100	0
51	The cost of a single concussion in American high school football: a retrospective cohort study. <b>2020</b> , 5, CNC81	0
50	Biomechanics and Prevention. <b>2020</b> , 25-32	



49	Ausgewählte Anwendungen von Stoßproblemen. <b>2020</b> , 197-227		
48	Kopfverletzungen. <b>2020</b> , 101-134		
47	Sport-Related Traumatic Brain Injury. 1-8		
46	The Effects of Active and Conventional Head Restraints on Front Seat Occupant Responses in Rear Impacts.		1
45	Kopfverletzungen. <b>2014</b> , 61-89		0
44	Youth Australian Footballers Experience Similar Impact Forces to the Head as Junior- and Senior-League Players: A Prospective Study of Kinematic Measurements. <b>2018</b> , 17, 547-556		2
43	Relationship between Impact Velocity and Resulting Head Accelerations during Head Impacts in Youth Football. <b>2018</b> , 2018, 326-333		1
42	Effect of Neck Strength on Simulated Head Impacts During Falls in Female Ice Hockey Players. <b>2021</b> , 14, 446-461		
41	Relationships between injury kinematics, neurological recovery, and pathology following concussion.. <b>2021</b> , 3, fcab268		0
40	Blast-induced axonal degeneration in the rat cerebellum in the absence of head movement.. <b>2022</b> , 12, 143		
39	Head Impact Exposure and Biomechanics in University Varsity Women's Soccer.. <i>Annals of Biomedical Engineering</i> , <b>2022</b> , 1	4-7	1
38	Predictive Helmet Optimization Framework Based on Reduced-Order Modeling of the Brain Dynamics.. <i>Annals of Biomedical Engineering</i> , <b>2022</b> , 1	4-7	
37	Cumulative strain-based metrics for predicting subconcussive head impact exposure-related imaging changes in a cohort of American youth football players.. <b>2022</b> , 1-10		0
36	Career Head Impact Exposure Profile of Canadian University Football Players.. <b>2022</b> , 1-11		2
35	Concussion biomechanics, head acceleration exposure and brain injury criteria in sport: a review.. <b>2021</b> , 1-29		3
34	Concussion Mechanism: Biomechanical Perspectives. <b>2022</b> , 1-24		
33	Integrating Human and Non-Human Primate Data to Estimate Human Tolerances for Traumatic Brain Injury.. <b>2021</b> ,		1
32	Factors Influencing the Effectiveness of a Center-Mounted Airbag in Reducing Occupant Excursion and Injury Potential in High-Speed Lateral Impacts.		0

31	Incorporating neck biomechanics in helmet testing: Evaluation of commercially available WaveCel helmets.. <b>2022</b> , 94, 105628	0
30	Quantifying head impacts and neurocognitive performance in collegiate boxers.. <b>2021</b> , 1-9	2
29	'Falling heads': investigating reflexive responses to head-neck perturbations.. <b>2022</b> , 21, 25	0
28	A Review of Head Injury Metrics Used in Automotive Safety and Sports Protective Equipment.. <b>2022</b> , ,	1
27	Real-time dynamic simulation for highly accurate spatiotemporal brain deformation from impact.. <b>2022</b> , 394,	0
26	Evaluation of two rotational helmet technologies to decrease peak rotational acceleration in cycling helmets.. <b>2022</b> , 12, 7735	0
25	Feasibility study for the estimation of a motorcycle helmet Centre of Gravity accelerations with 6 Degrees of Freedom (6DOF) system. <b>2022</b> , 14, 100603	0
24	Heading Exposure in Elite Football (Soccer): A Study in Adolescent, Young Adult, and Adult Male and Female Players.. <b>2022</b> ,	0
23	Instantaneous Brain Strain Estimation for Automotive Head Impacts via Deep Learning.. <b>2021</b> , 65, 139-162	
22	Sport-related concussion: The role of repetitive head impact exposure. <b>2022</b> , 29-40	
21	Head biomechanics of video recorded falls involving children in a childcare setting. <b>2022</b> , 12,	
20	A non-invasive biomechanical model of mild TBI in larval zebrafish. <b>2022</b> , 17, e0268901	0
19	Use of Brain Biomechanical Models for Monitoring Impact Exposure in Contact Sports. <i>Annals of Biomedical Engineering</i> ,	4-7 0
18	Estimation of Head Accelerations in Crashes Using Neural Networks and Sensors Embedded in the Protective Helmet. <b>2022</b> , 22, 5592	
17	Characterization and Preclinical Treatment of Rotational Force-Induced Brain Injury.	
16	Drop Test Kinematics Using Varied Impact Surfaces and Head/Neck Configurations for Rugby Headgear Testing.	
15	Brain architecture-based vulnerability to traumatic injury. 10,	0
14	Review of Mechanisms and Research Methods for Blunt Ballistic Head Injury. <b>2022</b> ,	1

13	Interdisciplinary Rehabilitation for Concussion Recovery (i-RECOVeR): protocol of an investigator-blinded, randomised, case series with multiple baseline design to evaluate the feasibility and preliminary efficacy of a 12-week treatment for persistent post-concussion symptoms. <b>2022</b> , 8,	0
12	Football Shoulder Pad Design and Its Effect on Head Kinematics in Shoulder-to-Helmet Impacts.	0
11	Concussion Prone Scenarios: A Multi-Dimensional Exploration in Impact Directions, Brain Morphology, and Network Architectures Using Computational Models.	0
10	Whitewater Helmet STAR: Evaluation of the Biomechanical Performance and Risk of Head Injury for Whitewater Helmets.	1
9	Consensus Head Acceleration Measurement Practices (CHAMP): Study Design and Statistical Analysis.	0
8	Head-ground impact conditions and helmet performance in E-scooter falls. <b>2023</b> , 181, 106935	1
7	The 50 Most Cited Papers Pertaining to American Football: Analysis of Studies From the Past 40 Years. <b>2022</b> , 10, 232596712211410	0
6	A Method for Evaluating Brain Deformation Under Sagittal Blunt Impacts Using a Half-Skull Human-Scale Surrogate. <b>2022</b> , 1-50	0
5	Head Impact Location, Speed and Angle from Falls and Trips in the Workplace.	0
4	Kinematic assessment of the NOCSAE headform during blunt impacts with a pneumatic linear impactor. <b>2023</b> , 26,	0
3	Characteristics of potential concussive events in elite hurling: a video-analysis study.	0
2	Cdk5 mediates rotational force-induced brain injury. <b>2023</b> , 13,	0
1	Head Impact Exposure in Youth Soccer: Comparing across Activity Types. 175433712311586	0